SPECIFICATION COVER SHEET
REQUEST FOR PROPOSAL #2019-14
INTERIOR PAINTING – ALL SCHOOLS

VENDOR MUST ENCLOSE THREE COPIES OF THIS SPECIFICATION COVER SHEET and THREE COPIES OF THE SPECIFICATIONS PRICING SHEETS WHEN RESPONDING TO THIS REQUEST FOR PROPOSAL (RFP)

The NEW CANAAN PUBLIC SCHOOLS reserves the right to reject any and all proposals, or separate parts thereof, requested herein before. When items are mentioned by a particular brand, substitution of equal quality items will be considered only if the proposed substitution is clearly stated. When a vendor fails to so identify a proposed substitution, it will be assumed that he is proposing the exact item requested. The NEW CANAAN PUBLIC SCHOOLS is exempt from the payment of Federal Excise Taxes and Connecticut Sales and Use Tax according to State Statute. Such taxes must not be included in bid prices nor added to any items specified.

INSTRUCTIONS ON RFP DEADLINES AND REQUIREMENTS:

NAME OF RFP: INTERIOR PAINTING – ALL SCHOOLS

TYPE OF RFP: Sealed Proposal QUOTATION #: 2019-14

RFP CLOSURE DATE: Received Until: DATE: August 7, 2019 TIME: 1:00 PM

LOCATION TO FORWARD RFPs: Jo-Ann Keating, Director of Finance and Operations
NEW CANAAN PUBLIC SCHOOLS
39 LOCUST AVENUE
NEW CANAAN, CT 06840

RFP SECURITY: RFP Security Required _____% RFP Security Not Required X

PREVAILING WAGE: Required (if over $100,000) Not Required

FORMS TO COMPLETE RFP: Submit three copies of all required documentation in a sealed envelope.

Identify Name of RFP on Envelope: RFP # 2019-11 INTERIOR PAINTING – ALL SCHOOLS

Only fully completed RFP packages will be accepted. The following details describe fully completed RFP packages:

Base Proposal

• Proposal Sheet
• Schedule of Project: Schedule of painting & completion
• Drug-Free Workplace Certificate
• Appendix A – Insurance Procedure Form
NEW CANAAN PUBLIC SCHOOLS

INVITATION TO SUBMIT PROPOSAL

New Canaan Public Schools (NCPS) invites proposals from qualified companies for **INTERIOR PAINTING – All Schools**.

Sealed proposals will be received at the New Canaan Public Schools, 39 Locust Avenue, 3rd Floor, New Canaan, CT 06840 **until August 7, 2019 at 1:00 pm**, EST, at which time they will be opened publicly and read aloud.

The Request for Proposal (RFP) is available online at [www.ncps-k12.org](http://www.ncps-k12.org).

Three (3) copies of the submitted qualifications and proposals are to be placed in a sealed envelope and addressed to Jo-Ann Keating, Director of Finance & Operations, New Canaan Public Schools, 39 Locust Avenue, 3rd Floor, New Canaan, CT 06840. No proposals will be accepted after the date and time specified. No fax or email submissions will be accepted.

The New Canaan Public Schools reserves the right to accept or reject, without prejudice, any or all proposals or to waive any irregularities therein, or to accept the proposal deemed to be in the best interest of New Canaan Public Schools.

**Jo-Ann Keating, Director of Finance and Operations**
New Canaan Public Schools
PROJECT START DATE: IMMEDIATE UPON AWARD OF CONTRACT.

Awarded contractor(s) must conduct background checks, at their cost, for all employees who will be on our premises, and provide results to New Canaan Public Schools prior to commencing work.

I have read and understand the RFP requirement of this RFP specification included for my review herein:

________________________________________________________________________________________
Signature of Company Representative Date

TYPED NAME AND

TITLE: ___________________________________________

COMPANY: _______________________________________

ADDRESS: ______________________________________

TOWN: ______________________ STATE: _______ ZIP: __________

TELEPHONE NUMBER: ___________________ FAX: ___________________

CELL NUMBER: ___________________________

EMAIL ADDRESS: (Please print clearly or attach business card):

________________________________________
REQUEST FOR PROPOSAL
RFP #2019-14
Interior Painting – All Schools

Notice is hereby given that sealed RFPs on the following will be received at the Office of the Director of Finance and Operations until:

1:00 pm, August 7, 2019

at which time they will be publicly opened and read aloud:

RFP #2019-14
INTERIOR PAINTING – ALL SCHOOLS

Building prints are available for purchase upon request through our remote access plan-room at:

Joseph Merritt & Company
4 Christopher Columbus Avenue, Unit C
Danbury, CT
Phone: 203-743-6734

Color coded maps of each school for broken out pricing by zone can be found on page 17, followed by painting and material specifications.

The Board of Education reserves the right to reject any and all proposals, or any part thereof, to waive defects in the same, or to accept any proposal it deems to be in the best interest of the Board of Education and/or the Town of New Canaan.

Questions regarding this bid should be directed to Daniel Clarke, Director of Facilities, at 203-822-3162.
NEW CANAAN PUBLIC SCHOOLS

REQUEST FOR PROPOSALS
Contractor Services Associated with:

INTERIOR PAINTING – ALL SCHOOLS
NEW CANAAN, CT

GENERAL

New Canaan Public Schools (NCPS) solicits proposals from LICENSED CONTRACTORS to perform INTERIOR PAINTING - ALL SCHOOLS.

Furnish all materials, equipment, and labor related to building drawings and specifications. Work is to be scheduled as stated on top of page 3.

Building drawings are available for purchase from Joseph Merritt & Company, 4 Christopher Columbus Avenue, Unit C, Danbury, CT, Phone: 203-743-6734.

To obtain access to schools to take measurements, you may contact the individuals below:

- High School Building Manager, Stan Sarafin (203) 505-3072
- Saxe Middle School Building Manager, Jim O’Hara (203) 505-3257
- South School Head Custodian, Amy Thorsen (203) 223-3234
- East School Head Custodian, Fred Word (203) 223-3236
- West School Head Custodian, Ted Milone (203) 223-3237
- Scott Olson, Maintenance Foreman (203) 223-3728

SCOPE OF WORK

The scope of work, without limiting the generality thereof, consists of furnishing all labor, material, equipment necessary to complete the project as indicated on the drawings and as specified.

PROPOSAL AND SUBMITTAL PROVISIONS

Proposal price is to be complete turnkey price.

THE PROPOSALS SHALL INCLUDE:

1. Vendors will submit three (3) sets of their sealed proposal on enclosed PROPOSAL SHEET.
2. Vendors will submit three (3) sets of their qualifications to include:
   a. A firm background or profile
   b. A statement of experience
   c. A statement of staff availability with their experiences and backgrounds. (Ensure that the Project Manager assigned to the job has knowledge of this proposal and is qualified by the membrane manufacturers to direct the effort.)
   d. A list of any and all proposed subcontractors to be utilized on the project.
e. A projected time schedule of the work. It is expected that the work will be completed by **October 1, 2019**.

3. The successful vendor shall provide using AIA documentation forms for the following; Contract, Performance, and Payment bond within ten days of notification of project award.

4. The successful Contractor shall be required to provide a one (1) year contractor’s labor and materials warranty.

**SUBMISSION REQUIREMENTS**

Respondents shall submit three (3) sets of their proposal. Proposals will be received at New Canaan Public Schools, 39 Locust Avenue, 3rd Floor, New Canaan, CT 06840, ATTN: Jo-Ann Keating, Director of Finance & Operations, until **August 7, 2019, 1:00 pm**, at which time they will be opened and publicly read aloud. No fax or email submissions will be accepted.

Jo-Ann Keating  
Director of Finance & Operations  
New Canaan Public Schools  
39 Locust Avenue, 3rd Floor  
New Canaan, CT 06840

Questions regarding this RFP may be directed to Daniel Clarke, Director of Facilities, at (203) 822-3162.

*A mandatory Pre-Bid Meeting is scheduled for **Wednesday, July 31, 2019 at 10:00 AM at South Elementary School, 8 Farm Road, New Canaan, CT.**

All proposals must be signed by an Officer of the Company.

The following items are attached:
Terms and Conditions  
Proposal Sheet
SPECIFICATIONS

RFP #2019-14
INTERIOR PAINTING – ALL SCHOOLS

Due on or before August 7, 2019, 1:00 pm at the office of:

Jo-Ann Keating
Director of Finance and Operations
NEW CANAAN PUBLIC SCHOOLS
39 LOCUST AVENUE, 3rd Floor
NEW CANAAN, CT 06840

Sealed proposals will be received by the Business Department of the New Canaan PUBLIC SCHOOLS of the Town of New Canaan, Connecticut until August 7, 2019 at 1:00 pm. Each proposal should be clearly marked (example) "RFP #2019-14 – INTERIOR PAINTING - ALL SCHOOLS". Specifications, instructions and proposal forms may be obtained at the above address. Faxed copies of the proposal will not be accepted.

CONDITIONS FOR SUBMITTING PROPOSALS

1. The Board of Education reserves the right to reject any proposal if it is deemed to be in the best interests of the Town of New Canaan, Connecticut, New Canaan Public Schools and its students.

2. The Board of Education reserves the right to grant an award in total or for any part thereof for the items or services being proposed. In addition, the Board of Education reserves the right to award this project as a package in conjunction with other proposals for similar services/supplies/equipment. The Board reserves the right to award with preference to State of Connecticut contract holders and/or local vendors.

3. The submission of a proposal shall be conclusive evidence that the vendor has satisfied himself as to the requirements of the RFP specifications and any controlling conditions which may exist.

4. Vendors may not withdraw their proposal for a period of 120 days from the date of RFP opening. The Board of Education and the vendor may mutually agree to extend the time limit.

5. In determining the ranking of responsible vendors, the Board of Education may consider, in addition to price, the quality, availability and type of items, the experience of the vendor, the sufficiency of the financial resources of the vendor and the reputation of the vendor for ability, integrity, judgment and performance, as well as the ability of the vendor to provide future service/supplies/equipment.

6. It is anticipated that the goods will be needed for the current school year, but the Board of Education reserves the right to cancel or alter this service because of enrollment changes, budget consideration or unforeseen circumstances which require a change.
7. All proposal prices are to include the complete costs, which includes inside delivery to each school or location with installation and assembly of same, if applicable, and training, if applicable. All deliveries must be made prepaid and must be delivered to the location subsequently designated on the purchase orders at no cost over and above the bid price indicated in your proposal. Deliveries must be made inside building indicated. In no case will collect shipments or sidewalk deliveries be accepted. A packing slip shall be included in each shipment. All packages must be clearly marked as to content.

8. The Board of Education of the Town of New Canaan supports efforts to reduce the use of illegal drugs in the workplace. In instances where responsible prospective bidders submit identical tie bids, preference shall be given to the businesses with drug-free workplace programs. Whenever two or more proposals which are equal with respect to price, quality, and service are received by the Board of Education for the procurement of commodities or contractual services which are proposed, a proposal received from a business which has certified that it has implemented a drug-free workplace program shall be given preference in the award process. The drug-free workplace program certification is attached and is to be submitted with the proposal package by the vendor along with other proposal documents in order to receive preference. This policy shall become effective in accordance with the provisions of the Charter of the Town of New Canaan regarding proposal procedures.

9. **ALTERNATIVES:** When proposing an alternate item, indicate the Brand and Model identification on the specification sheets. To have alternates considered, complete specifications must be provided and catalogues describing the product must accompany the bid. The New Canaan Public Schools reserves the right to request equipment samples on specific items.

10. **SUBSTITUTIONS:** No substitutions
    
The New Canaan Public Schools reserves the right to request equipment samples on specific items.

11. **FORM AND STYLE OF PROPOSAL:** All blanks on the Proposal Sheet, except where otherwise requested, shall be filled in by typewriter or manually in ink and must be completely legible.

12. **WARRANTIES:** Whenever an item or service is covered by a specified product or service warranty, such warranties must be submitted with the official proposal or quotation specification sheets. All such warranties shall inure to the benefit of the Board.

13. **INSURANCE REQUIREMENTS:** The successful vendor will be required to purchase from and maintain, for the life of the contract, in a company or companies with an A.M/Best rating of A- (VII) or better, such insurance as will protect the Board of Education from claims set forth below which may arise out of or result from the vendor’s obligation under the Contract, whether such obligation is the vendor’s or a subcontractor or any person or entity directly or indirectly

14. **WORKER'S COMPENSATION:**
    Vendor shall provide workers compensation insurance required by law with employer’s liability limits for at least the amounts of liability for bodily injury by accident of $500,000 each accident and bodily injury by disease of $500,000.
15. **Commercial General Liability Insurance:**
Vendor shall provide commercial general liability insurance policy with an edition of 1986 or later including products and complete operations. Limits should be at least: Bodily injury and property with an occurrence limit of $1,000,000; Personal & advertising injury limit of $1,000,000 per occurrence; General aggregate limit of $2,000,000 (other than products and completed operations); Products and completed operations aggregate limit of $2,000,000. Coverage will continue three years after the completion of the work.

- The policy shall name the New Canaan Public Schools as an additional insured and include ISO Form CG2010 (07/04) and CG 2037 (07/04).
- Such coverage will be provided on an occurrence basis, and will be primary, and shall not contribute in any way to any insurance or self-insured retention carried by the Board of Education.
- The policy shall contain a waiver of liability in favor of the Board of Education.
- Such coverage shall contain a broad form contractual liability endorsement or wording within the policy form to comply with the hold harmless and indemnity provision of the contract.
- A per project aggregate limit of liability endorsement shall apply for any construction contract.
- Deductible and self-insured retentions shall be declared and are subject to approval by the Board of Education.

16. **Commercial Automobile Insurance:**
Vendor shall provide commercial automobile insurance for any owned autos (symbol 1 or equivalent) in the amount of $1,000,000 each accident covering bodily injury and property damage on a combined single limit basis. Such coverage shall also include hired and non-owned automobile coverage. Policy shall name the Board of Education as an additional insured.

17. **Umbrella Liability Insurance:**
Vendor shall provide an umbrella or excess liability policy (without restriction or limitation). Such policy shall contain limits of liability in the amount of $5,000,000 each occurrence and $5,000,000 in the aggregate.

As to the insurance required, the insurer(s) and/or their authorized agents shall provide the Board of Education certificates of insurance prior to execution of the agreement by the Board of Education describing said coverage.

18. **QUESTIONS:** For questions regarding the proposal process, contact Jo-Ann Keating, Director of Finance and Operations, at (203) 594-4025.

For questions regarding the project, contact Daniel Clarke, Director of Facilities, at (203) 822-3162.
NOTE: By submitting a proposal for this contract the vendor agrees that any or all past clients may be contacted by the New Canaan School District. The vendors quoting on this contract also agree to release and discharge by quoting on this contract for the vendor him/herself, his/her heirs executors administrators and assigns, release acquit and forever discharge the New Canaan School System, its Board of Education and all employees and any or all other persons, firms and corporations of and from any and all actions, causes of actions, claims or demands for damages, costs, loss of services, expenses, compensation, consequential damage or any other thing whatsoever, on account of, or in any way growing out of any former client contacted by the New Canaan School System to obtain an opinion regarding any work performed by your company. The above release shall also include and apply to any former client contacted.
DRUG-FREE WORKPLACE CERTIFICATE

I hereby certify that this company:

1. Has a published statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and that this statement specifies the actions which will be taken against employees for violations of such prohibition.

2. Has a written policy informing employees about the dangers of drug abuse in the workplace, the firm’s policy of maintaining a drug free workplace, any available counseling, rehabilitation, and employee assistance programs, and the penalties which may be imposed upon employees for drug abuse violations.

3. Each employee engaged in providing the commodities or contractual services which are being bid was given a copy of the statements specified in paragraphs 1 and 2, above.

4. In the statement specified in paragraph 1, the employees have been notified that, as a condition of working on the commodities or contractual services which are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of “guilty” or of “nolo contendere” to any violation of any controlled substance law of the United States or of any state, for a violation occurring in the workplace no later than five (5) days after such conviction or plea.

5. This firm will impose a sanction on or require the satisfactory participation in a drug abuse assistance program or a rehabilitation program, if such are available in the employee’s community, by any employee who is so convicted.

6. This firm will make a good faith effort to continue to maintain a drug free workplace.

As the person authorized to sign this statement, I certify that this firm fully complies with the above requirements.

Signature:____________________________________     Date: _________________________

Print Name:___________________________________

Company: ____________________________________

DrugFreeWkplaceCert (forms)
Please note:

Return this completed form with your proposal. Failure to do so may result in your proposal being rejected.

Please take the insurance requirements of the proposal to your agent/broker immediately upon receipt of the RFP documents to determine your existing coverage and any costs for new or additional coverage required for the work noted in RFP. Any proposals that contain exceptions to the insurance requirements may be considered non-responsive and may be rejected.

Statement of Vendor:

I have read the insurance requirements for this work and have taken the documentation to my insurance agent/broker. BID/RFP cost reflects any additional costs relating to insurance requirements for this work.

If I am awarded this contract, I or my insurance agent shall submit all of the required insurance documentation to New Canaan Public Schools Business Office within ten (10) days after the date of the award.

________________________________________  ___________________________
Signature        Date

_________________________________________
Print Vendor Name
TERMS AND CONDITIONS

THIS IS A REQUEST FOR PROPOSALS AND THE NEW CANAAN PUBLIC SCHOOLS RESERVES THE RIGHT TO NEGOTIATE AND CONTRACT WITH ANYONE OR NO ONE IN THE BEST INTERESTS OF THE TOWN.

NCPS RESERVES THE RIGHT TO AWARD ONE, TWO, OR ALL OF THE PROJECTS TO THE SAME CONTRACTOR.

Unless otherwise modified, the following terms and conditions will apply to services rendered. The respondent may use a standard form of agreement incorporating the following provisions.

Services to be Provided

The winning vendor shall provide services as set forth in the RFP and in accordance with the terms identified herein. The services provided will be performed on behalf of and solely for the New Canaan Public Schools and any information, tests, reports, correspondence, and conclusions shall not be released to other parties unless authorized by NCPS or in accordance with any applicable state or federal law.

Billing and Payment

New Canaan Public Schools will pay the winning vendor for services performed in accordance with the signed Agreement. Invoices will be submitted periodically or upon completion of services rendered. The Town reserves the right to request substantiating information on any bill submitted. The Town will, within 30 days after receipt of an invoice requesting payment, and with the approval of the Town, indicate the approval of payment and process the invoice or indicate to the winning vendor in writing, the reason for refusing to approve said invoice. In the latter case, the winning vendor will make the necessary corrections and resubmit the invoice.

Court Litigation and Waiver of Jury Trial

Notwithstanding the existence of any provision for arbitration of disputes in the contract or any legislation providing for arbitration, any dispute arising under this contract shall not be submitted to arbitration and the parties shall be left to the remedies at law. It is further expressly agreed that both parties waive and relinquish their right to a trial by jury of any dispute arising out of this contract. The intent of the parties is not to have a jury decide any aspect of any dispute which may arise under this contract.

Mediation

All claims, disputes or other matters in question between the parties to this Agreement arising out of or relating to this Agreement or breach thereof shall be submitted to non-binding mediation. On the written notice of either party to the other of the election to submit any dispute under this Agreement to mediation, each party shall designate its representative and shall meet at the New Canaan Town Hall within ten (10) days after the service of notice. The parties themselves shall then attempt to resolve the dispute within ten (10) days of meeting.

Should the parties themselves be unable to agree on a resolution of this dispute, then the parties shall appoint a third party, who shall be a competent and impartial party and who shall be acceptable to each party, to mediate the dispute. Each party shall pay the fees and expenses of the party mediator and such
costs shall be borne equally by both parties. Upon agreement of the parties, either party may waive the first step in the mediation process and appoint a mutually acceptable mediator.

Any third party mediator designated to serve in accordance with the provisions of the Agreement shall be disinterested and shall be qualified to evaluate the performance of both parties.

This process shall be considered as a condition precedent to moving to court.

**Equitable Relief**

Nothing herein shall prevent either party from obtaining a court order enforcing the mediation process or such other temporary or equitable relief until such time that the dispute is settled or finally adjudicated.
Having carefully examined the Instructions to Vendors, Equipment / Material Specifications, Scope of Work, Standard Bid/RFP and Contract Terms and Conditions, the site(s) where the work is to be performed, all applicable legal requirements and having made such independent investigations as the respondent deemed necessary, the undersigned hereby submits a proposal to perform the Interior Painting – All Schools.

In submitting this proposal, the vendor represents that this proposal will remain effective for one hundred twenty (120) days following the proposal due date.

A. Project Cost and Construction Administration:

For providing all work, labor, materials, equipment, transportation, insurance and all else whatsoever required to completely finish all work in connection with the project:

**Interior Painting by Location**

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<tr>
<th>STRAIGHT TIME</th>
<th>New Canaan High School</th>
<th>Saxe Middle School</th>
<th>South Elementary School</th>
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TOTAL
NOTE: Second shift is Monday through Friday from 3:30pm – 10:30pm
and Saturday from 7:00am – 3:00pm

If awarded this contract, we will execute an AIA contract with New Canaan Public Schools, Owner of the properties.

*Prices given are the final price to the Owner and include all permits, fees, overhead and profit of the Vendor.

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<th>Zone</th>
<th>New Canaan High School</th>
<th>Saxe Middle School</th>
<th>South Elementary School</th>
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New Canaan Schools

For: New Canaan Public Schools
Prepared by: Pier Crivillaro

Benjamin Moore & Co.
Pier Crivillaro – Territory Representative
Pier.Crivillaro@Benjaminmoore.com
914.318.5429

Rings End
Eddie Pocoski – Sales Representative
Eddie.Pocoski@Ringsend.com
203.410.9402
Pier Crivillaro  
Territory Representative  
101 Paragon Drive-Montvale-NJ 07645  
Email: Pier.crivillaro@benjaminmoore.com  
C:914.318.5429

Facilities Manager  
New Canaan Public Schools  
39 Locust Ave  
New Canaan, CT 06840  

RE: New Canaan Schools

Thank you for considering Benjamin Moore products for the New Canaan Schools. Included in this package is the Benjamin Moore submittal for the above referenced project.

Should you require assistance or have any questions or concerns, please contact me at (914)318-5429 or e-mail me at Pier.Crivillaro@benjaminmoore.com

Sincerely,  
Pier Crivillaro  
Benjamin Moore & Co  
Territory Sales Representative  
(914)318-5429
RE: New Canaan Schools

Preparation:

Walls

1. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. Do not paint over tape, labels etc.

2. Clean walls of anything that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints

3. Fix all nail pops, torn drywall paper, damaged corners, cut out all glue spots, small holes, and indents.

4. Block stains with 046 Fresh Start primer

5. Sand entire wall with 220 grit sand paper and wipe wall ensuring it is dust free

Door, Door Frames and Railings

1. Remove all incompatible paint

2. Clean anything that could impair bond of paints, including dust, dirt, oil, grease,

3. Sand to dull finish to promote adhesion
Finish Schedule

A. Hallway Walls Gypsum
Spot Prime: Benjamin Moore Fresh Start Superior Primer 046
Intermediate: Benjamin Moore Scuff X Satin 486
Finish: Benjamin Moore Scuff X Satin 486

B. Classroom & Bathrooms Walls Gypsum
Spot Prime: Benjamin Moore Fresh Start Superior Primer 046
Intermediate: Benjamin Moore Scuff X Eggshell 485
Finish: Benjamin Moore Scuff X Eggshell 485

C. Steel Doors and Frames
Prime: Benjamin Moore Insl-x Stix Primer
Intermediate: Benjamin Moore Scuff X Semi-Gloss 487
Finish: Benjamin Moore Scuff X Semi-Gloss 487

D. Railings
Prime: Benjamin Moore Insl-x Stix Primer
Intermediate: Benjamin Moore Corotech Water-based Epoxy V440
Finish: Benjamin Moore Corotech Water-based Epoxy V440

E. Hallways & Bathroom Walls CMU
Spot Prime: Benjamin Moore Insl-x Stix Primer
Intermediate: Benjamin Moore Scuff X Satin 486
Finish: Benjamin Moore Scuff X Satin 486
F. Classroom Walls CMU

Spot Prime: Benjamin Moore Insl-x Stix Primer
Intermediate: Benjamin Moore Scuff X Eggshell 485
Finish: Benjamin Moore Scuff X Eggshell 485
FRESH START®
HIGH-HIDING ALL PURPOSE PRIMER
046

Features
- Maximum hiding
- Excellent all-around stain blocker
- Whole house primer
- Superior adhesion
- Quick drying
- Great flow & leveling
- Mildew resistant

General Description
A superior quality, interior/exterior 100% acrylic primer that delivers maximum hide and ensures uniform finish. It is the product of choice when a significant color change is required. It provides superior adhesion and is more forgiving over difficult substrates. Additionally, this product is effective in sealing and suppressing most bleeding type stains. In cases of severe bleeding, a solvent based primer should be used to prevent stains from reappearing.

Recommended For
Interior: Use on new or previously painted wood, plywood, drywall, ceiling tile, Formica®, Masonite®, ceramic tile and cured plaster. Exterior: Use on new or previously painted wood, fiber cement board, hardboard siding, aluminum, galvanized, cured masonry and previously coated ferrous metal surfaces.

Type of Stains: Water stains, tannin bleed, smoke damage, markers, crayons, pens, pencils, nicotine, hand & fingerprints, household stains such as coffee and many more.

2 coats of primer may be required in severe cases; allow the primer to dry thoroughly for best results.

Limitations
- Not recommended for sealing knots or over pine sap.
- On hard, non-porous surfaces, such as glazed ceramics and prefinished metal, maximum adhesion and hardness may take 3-4 days to develop.
- Do not apply when air and surface temperatures are below 40 °F (4.4 °C).

Recommended For

Interior: Use on new or previously painted wood, plywood, drywall, ceiling tile, Formica®, Masonite®, ceramic tile and cured plaster. Exterior: Use on new or previously painted wood, fiber cement board, hardboard siding, aluminum, galvanized, cured masonry and previously coated ferrous metal surfaces.

Certifications & Qualifications:
VOC compliant in all regulated areas
- Qualifies for LEED® v4 Credit
- Qualifies for CHPS low emitting credit (Collaborative for High Performance Schools)
- CDPH v1 Emission Certified
- Master Painters Institute MPI # 6, 17, 17 X-Green™, 39, 50, 50 X-Green™, 137, 137 X Green™
- Class A (0-25) over non-combustible surfaces when tested in accordance with ASTM E-84

Recommended Colors:
White (00)
May be tinted to light pastels with up to 2.0 fl. oz. of Benjamin Moore® Gennex® colorants per gallon.

— Gennex® Tint Bases:
Deep Base (04)
(When tinted in accordance with Benjamin Moore prescriptions, the Deep Base will provide a hiding base coat suitable for use under deep and intense colors.)

Tint only with Benjamin Moore® Gennex® Waterborne colorant.

— Special Colors:
Contact your Benjamin Moore representative.

Certifications & Qualifications:
VOC compliant in all regulated areas
- Qualifies for LEED® v4 Credit
- Qualifies for CHPS low emitting credit (Collaborative for High Performance Schools)
- CDPH v1 Emission Certified
- Master Painters Institute MPI # 6, 17, 17 X-Green™, 39, 50, 50 X-Green™, 137, 137 X Green™
- Class A (0-25) over non-combustible surfaces when tested in accordance with ASTM E-84

Technical Assistance
Available through your local authorized independent Benjamin Moore retailer. For the location of the retailer nearest you, call 1-866-708-9180 or visit www.benjaminmoore.com

Product Information

<table>
<thead>
<tr>
<th>Colors — Standard:</th>
<th>White</th>
</tr>
</thead>
<tbody>
<tr>
<td>White (00)</td>
<td></td>
</tr>
<tr>
<td>May be tinted to light pastels with up to 2.0 fl. oz. of Benjamin Moore® Gennex® colorants per gallon.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Technical Data®</th>
<th>White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Type</td>
<td>100% Acrylic Latex</td>
</tr>
<tr>
<td>Pigment Type</td>
<td>Titanium Dioxide</td>
</tr>
<tr>
<td>Volume Solids</td>
<td>35.8%</td>
</tr>
<tr>
<td>Coverage per Gallon at Recommended Film Thickness</td>
<td>400 – 450 Sq. Ft.</td>
</tr>
<tr>
<td>Recommended Film Thickness</td>
<td></td>
</tr>
<tr>
<td>Wet</td>
<td>3.8 mils</td>
</tr>
<tr>
<td>Dry</td>
<td>1.4 mils</td>
</tr>
<tr>
<td>Dry Time @ 77 °F (25 °C) @ 50% RH</td>
<td>To Touch 1 Hour</td>
</tr>
<tr>
<td></td>
<td>To Recoat 2 Hours</td>
</tr>
<tr>
<td>High humidity and cool temperatures will result in longer dry, recoat and service times.</td>
<td></td>
</tr>
<tr>
<td>Dries By</td>
<td>Evaporation, Coalescence</td>
</tr>
<tr>
<td>Viscosity</td>
<td>95 ± 2 KU</td>
</tr>
<tr>
<td>Flash Point</td>
<td>None</td>
</tr>
<tr>
<td>Gloss / Sheen</td>
<td>Low Lustre (7 – 12 @ 85°)</td>
</tr>
<tr>
<td>Surface Temperature at Application</td>
<td></td>
</tr>
<tr>
<td>Min.</td>
<td>40 °F</td>
</tr>
<tr>
<td>Max.</td>
<td>90 °F</td>
</tr>
<tr>
<td>Thin With</td>
<td>Do Not Thin</td>
</tr>
<tr>
<td>Clean Up Thinner</td>
<td>Clean Water</td>
</tr>
<tr>
<td>Weight Per Gallon</td>
<td>10.7 lbs</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td></td>
</tr>
<tr>
<td>Min.</td>
<td>40 °F</td>
</tr>
<tr>
<td>Max.</td>
<td>90 °F</td>
</tr>
</tbody>
</table>

Volatile Organic Compounds (VOC)
- White - 44 Grams/Liter .36 LBS/Gallon
- Deep Base - 35 Grams/Liter .29 LBS/Gallon

©Reported values are for White. Contact Benjamin Moore for values of other bases or colors.
Surface Preparation

Surfaces to be painted must be clean, dry, and free of dirt, dust, grease, oil, soap, wax, scaling paint, water soluble materials, and mildew. Remove any peeling or scaling paint and sand these areas to feather edges smooth with adjacent surfaces. Glossy areas should be dulled. Drywall surfaces must be free of sanding dust.

New plaster or masonry surfaces must be allowed to cure for 30 days before applying base coat. Cured plaster should be hard, have a slight sheen and maximum PH of 10; soft, porous or powdery plaster indicates improper cure. Never sand a plaster surface; knife off any protrusions and prime plaster before and after applying patching compound. Poured or pre-cast concrete with a very smooth surface should be etched or abraded to promote adhesion, after removing all form release agents and curing compounds. Remove any powder or loose particles before priming. Wood substrates must be thoroughly dry. Caution: Smooth planed clapboards or siding must be sanded thoroughly to break the “mill glaze” allowing proper penetration and adhesion.

Difficult Substrates: If the surfaces to be painted exhibit severe tannin or smoke staining, an alkyd based Benjamin Moore primer may be your best choice for conquering these severe conditions. Consult your Benjamin Moore retailer for further guidance.

WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Carefully clean up with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Primer/Finish Systems

Fresh Start® High-Hiding All Purpose Primer is the preferred primer in most situations. New surfaces should be fully primed, and previously painted surfaces may be primed or spot primed as necessary. For best hiding results use Fresh Start® High-Hiding All Purpose Primer tinted to the approximate finish coat color. Special Note: Certain custom colors require a Deep Color Base Primer tinted to a special prescription formula to achieve the desired color. Consult your retailer.

Wood, and engineered wood products:

Primer: Fresh Start® High-Hiding All Purpose Primer (046)
Finish: 1 or 2 coats of the appropriate Benjamin Moore® finish coat

Bleeding type woods, (cedar and redwood):

Primer: Fresh Start® High-Hiding All Purpose Primer (046) or Fresh Start® Multi-Purpose Oil Based Primer (024)
Finish: 1 or 2 coats of the appropriate Benjamin Moore® finish coat

Drywall:

Primer: Fresh Start® High-Hiding All Purpose Primer (046)
Finish: 1 or 2 coats of the appropriate Benjamin Moore® finish coat

Plaster (Cured):

Primer: Fresh Start® High-Hiding All Purpose Primer (046)
Finish: 1 or 2 coats of the appropriate Benjamin Moore® finish coat

Rough or Pitted Masonry:

Primer: Ultra Spec® Masonry Interior/Exterior Hi-Build Block Filler (571)
Finish: 1 or 2 coats of the appropriate Benjamin Moore® finish coat

Smooth Poured or Pre-cast Concrete:

Primer: Ultra Spec® Masonry Interior / Exterior 100% Acrylic Masonry Sealer (908) or Fresh Start® High-Hiding All Purpose Primer (046)
Finish: 1 or 2 coats of the appropriate Benjamin Moore® finish coat

Ferrous Metal (Steel and Iron):

Primer: Ultra Spec® HP Acrylic Metal Primer (HP04) or Super Spec HP® Alkyd Metal Primer (P06)
Finish: 1 or 2 coats of the appropriate Benjamin Moore® finish coat

Non-Ferrous Metal (Galvanized & Aluminum) All new metal surfaces must be thoroughly cleaned with Corotech® Oil & Grease Emulsifier (V600) to remove contaminants. New shiny non-ferrous metal surfaces that will be subject to abrasion should be dulled with very fine sandpaper or a synthetic steel wool pad to promote adhesion.

Primer: Ultra Spec® HP Acrylic Metal Primer (HP04)
Finish: 1 or 2 coats of the appropriate Benjamin Moore® finish coat

Repaint, All Substrates: Prime bare areas with the primer recommended for the substrate above.

Application

Stir thoroughly before and during use. Apply one or two coats. Paint Application: For best results, use a premium Benjamin Moore® custom-blended nylon/polyester brush, premium Benjamin Moore® roller, or a similar product. Apply paint generously from unpainted area into wet area.

This product can also be sprayed.

Spray, Airless: Fluid Pressure: 1500 – 2500
Tip: .013 – .017

Thinning/Clean up

Thinning is unnecessary, but if required to obtain desired application properties, a small amount of clean water may be added. Never add other paints or solvents.

Clean Up: Clean equipment with soap and water. Spray equipment should be given a final rinse with mineral spirits to prevent rusting.

Environmental Health & Safety Information.

Use only with adequate ventilation. Do not breathe spray mist or sanding dust. Ensure fresh air entry during application and drying. Avoid contact with eyes and prolonged or repeated contact with skin. Wear an appropriate, properly fitted respirator (NIOSH approved) during application, sanding, and clean-up. Follow respirator manufacturer’s directions for respirator use. Close container after each use. Wash thoroughly after handling.

WARNING Cancer and Reproductive Harm– www.P65warnings.ca.gov

FIRST AID: In case of eye contact, flush immediately with plenty of water for at least 15 minutes; for skin, wash thoroughly with soap and water. If symptoms persist, seek medical attention. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

IN CASE OF SPILL – Absorb with inert material and dispose of as specified under “Clean Up”

KEEP OUT OF REACH OF CHILDREN
PROTECT FROM FREEZING

Refer to Safety Data Sheet for additional health and safety information.
1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: FRESH START HIGH-HIDING ALL PURPOSE PRIMER WHITE
Product Code: 04600
Alternate Product Code: 04600
Product Class: WATER THINNED PAINT
Color: White
Recommended use: Paint
Restrictions on use: No information available

Manufacturer: Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 1-866-708-9180
www.benjaminmoore.com

Emergency Telephone:
CHEMTREC (US): 800-424-9300
CHEMTREC (outside US): (703)-527-3887

2. HAZARDS IDENTIFICATION

Classification
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements
Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Appearance: liquid
Odor: little or no odor

Hazards not otherwise classified (HNOC)
Not applicable

Other information
No information available

Other hazards
May cause allergic skin reaction

### 3. COMPOSITION INFORMATION ON COMPONENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>15</td>
</tr>
<tr>
<td>Diatomaceous earth</td>
<td>61790-53-2</td>
<td>5</td>
</tr>
<tr>
<td>Propanoic acid, 2-methyl-, monoester with 2,2,4-trimethyl-1,3-pentanediol</td>
<td>25265-77-4</td>
<td>5</td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>1</td>
</tr>
<tr>
<td>Hexanedioic acid, dihydrazide</td>
<td>1071-93-8</td>
<td>0.5</td>
</tr>
<tr>
<td>Sodium C14-C16 olefin sulfonate</td>
<td>68439-57-6</td>
<td>0.5</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**General Advice**
No hazards which require special first aid measures.

**Eye Contact**
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin Contact**
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**Inhalation**
Move to fresh air. If symptoms persist, call a physician.

**Ingestion**
Clean mouth with water and afterwards drink plenty of water. Consult a physician if necessary.

**Most Important Symptoms/Effects**
May cause allergic skin reaction.

**Notes To Physician**
Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Protective Equipment And Precautions For Firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Specific Hazards Arising From The Chemical**
Closed containers may rupture if exposed to fire or extreme heat.

**Sensitivity To Mechanical Impact**
No

**Sensitivity To Static Discharge**
No

**Flash Point Data**
- Flash Point (°F) Not applicable
- Flash Point (°C) Not applicable
6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

Other Information
Prevent further leakage or spillage if safe to do so.

Environmental precautions
See Section 12 for additional Ecological Information.

Methods for Cleaning Up
Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling
Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage
Keep container tightly closed. Keep out of the reach of children.

Incompatible Materials
No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>10 mg/m³ - TWA</td>
<td>15 mg/m³ - TWA</td>
</tr>
<tr>
<td>Diatomaceous earth</td>
<td>N/E</td>
<td>-</td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>2 mg/m³ - TWA</td>
<td>5 mg/m³ - TWA</td>
</tr>
<tr>
<td></td>
<td>10 mg/m³ - STEL</td>
<td>15 mg/m³ - TWA</td>
</tr>
</tbody>
</table>

Legend
ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits
Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection
Safety glasses with side-shields.

Skin Protection
Protective gloves and impervious clothing.

Respiratory Protection
In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene Measures
Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Little or no odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>Density (lbs/gal)</td>
<td>10.6 - 11.0</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.27 - 1.32</td>
</tr>
<tr>
<td>pH</td>
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</tr>
<tr>
<td>Viscosity (cps)</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>No information available</td>
</tr>
<tr>
<td>Water solubility</td>
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</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor pressure @20 °C (kPa)</td>
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</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
</tr>
<tr>
<td>Wt. % Solids</td>
<td>50 - 60</td>
</tr>
<tr>
<td>Vol. % Solids</td>
<td>35 - 45</td>
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<tr>
<td>Wt. % Volatiles</td>
<td>40 - 50</td>
</tr>
<tr>
<td>Vol. % Volatiles</td>
<td>55 - 65</td>
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<tr>
<td>VOC Regulatory Limit (g/L)</td>
<td>&lt; 100</td>
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<tr>
<td>Boiling Point (°F)</td>
<td>212</td>
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<tr>
<td>Boiling Point (°C)</td>
<td>100</td>
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<tr>
<td>Freezing Point (°F)</td>
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<tr>
<td>Freezing Point (°C)</td>
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<tr>
<td>Flash Point (°F)</td>
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</tr>
<tr>
<td>Flash Point (°C)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Method</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
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</tr>
<tr>
<td>Upper flammability limit:</td>
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<tr>
<td>Lower flammability limit:</td>
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<tr>
<td>Autoignition Temperature (°F)</td>
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<tr>
<td>Autoignition Temperature (°C)</td>
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</tr>
<tr>
<td>Decomposition Temperature (°F)</td>
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<tr>
<td>Decomposition Temperature (°C)</td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
Not Applicable
Chemical Stability
Stable under normal conditions.

Conditions to avoid
Prevent from freezing.

Incompatible Materials
No materials to be especially mentioned.

Hazardous Decomposition Products
None under normal use.

Possibility of hazardous reactions
None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Product Information

Information on likely routes of exposure

Principal Routes of Exposure
Eye contact, skin contact and inhalation.

Acute Toxicity

Product Information
No information available

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms
No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Eye contact
May cause slight irritation.

Skin contact
Substance may cause slight skin irritation. Prolonged or repeated contact may dry skin and cause irritation.

Inhalation
May cause irritation of respiratory tract.

Ingestion
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sensitization
May cause an allergic skin reaction

Neurological Effects
No information available.

Mutagenic Effects
No information available.

Reproductive Effects
No information available.

Developmental Effects
No information available.

Target organ effects
No information available.

STOT - single exposure
No information available.

STOT - repeated exposure
No information available.

Other adverse effects
No information available.

Aspiration Hazard
No information available

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 19113 mg/kg
ATEmix (dermal) 1216340 mg/kg

Component Information

Titanium dioxide
LD50 Oral: > 10000 mg/kg (Rat)
Zinc oxide
LD50 Oral: 5000 mg/kg (Rat)
LC50 Inhalation (Dust): > 5700 mg/m³ (Rat, 4 hr.)

Carcinogenicity
The information below indicates whether each agency has listed any ingredient as a carcinogen:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>2B - Possible Human Carcinogen</td>
<td></td>
<td>Listed</td>
</tr>
</tbody>
</table>

* Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

Legend
IARC - International Agency for Research on Cancer
NTP - National Toxicity Program
OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects
The environmental impact of this product has not been fully investigated.

Product Information

**Acute Toxicity to Fish**
No information available

**Acute Toxicity to Aquatic Invertebrates**
No information available

**Acute Toxicity to Aquatic Plants**
No information available

**Persistence / Degradability**
No information available.

**Bioaccumulation**
There is no data for this product.

**Mobility in Environmental Media**
No information available.

**Ozone**
No information available

Component Information

**Acute Toxicity to Fish**
Titanium dioxide
LC50: > 1000 mg/L (Fathead Minnow - 96 hr.)

**Acute Toxicity to Aquatic Invertebrates**
No information available

**Acute Toxicity to Aquatic Plants**
No information available

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method**
Dispose of in accordance with federal, state, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

### 14. TRANSPORT INFORMATION

**DOT**
Not regulated

**ICAO / IATA**
Not regulated

**IMDG / IMO**
Not regulated

### 15. REGULATORY INFORMATION

**International Inventories**

**TSCA: United States**
Yes - All components are listed or exempt.

**DSL: Canada**
Yes - All components are listed or exempt.

**Federal Regulations**

**SARA 311/312 hazardous categorization**

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute health hazard</td>
<td>No</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden release of pressure hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

*None*

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following HAPs:
None

US State Regulations

California Proposition 65

⚠️ WARNING: Cancer and Reproductive Harm— www.P65warnings.ca.gov

State Right-to-Know

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Diatomaceous earth</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Legend

X - Listed

16. OTHER INFORMATION

HMIS -

|        | Health: 1 | Flammability: 0 | Reactivity: 0 | PPE: - |

HMIS Legend

0 - Minimal Hazard
1 - Slight Hazard
2 - Moderate Hazard
3 - Serious Hazard
4 - Severe Hazard
* - Chronic Hazard

X - Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Prepared By

Product Stewardship Department
Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
800-225-5554
Disclaimer
The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.

END OF SAFETY DATA SHEET
Features

- Innovative and proprietary scuff-resistance formula
- Superior durability
- Washable
- Quick dry
- Great touch-up
- Easy application
- Spatter resistant
- Qualifies for LEED® v4 credit
- Suitable for use in USDA inspected facilities

General Description

A high-performance, one-component latex paint specifically engineered to deliver outstanding performance and protection for the toughest high-traffic areas in busy commercial spaces. This breakthrough product offers superior durability and scuff-resistance than traditional high-performance two-component coatings, without the pre-mixing, short pot-life and application difficulties related to similar products. It will retain its high-quality appearance longer with minimal maintenance and re-painting required. With its slight gloss, the Satin finish offers the benefits of richer look that is perfect elevator areas, stairwells and locker rooms.

Recommended For

Ideal for high-traffic areas in commercial spaces such as school hallways, hospital waiting areas, hotels lobbies, gym locker rooms and bathrooms, retail fitting rooms, cafeterias, bathrooms and stairwells. For use on primed or previously painted drywall, plaster, wood, metal and wallpapered surfaces.

Limitations

- Do not apply when air and surface temperatures are below 50 °F (10 °C)
- Not recommended for floors
- Interior use only

Product Information

<table>
<thead>
<tr>
<th>Colors — Standard:</th>
</tr>
</thead>
<tbody>
<tr>
<td>White (01)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>— Tint Bases:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benjamin Moore® Gennex® bases 1X, 2X, 3X &amp; 4X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>— Special Colors:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact your Benjamin Moore representative</td>
</tr>
</tbody>
</table>

Certifications & Qualifications:

VOC compliant in all regulated areas except for SCAQMD

- Qualifies for LEED® v4 Credit
- Qualifies for CHPS low emitting credit (Collaborative for High Performance Schools)
- CDPH v1 Emission Certified
- Class A (0-25) over non-combustible surfaces when tested in accordance with ASTM E-84
- Suitable for use in USDA inspected facilities

Anti-microbial - This product contains agents which inhibit the growth of microbes on the surface of this paint film. This product contains antimicrobial additives that inhibit the growth of mold and mildew on the surface of the paint film.

Technical Data

- Pastel Base

<table>
<thead>
<tr>
<th>Vehicle Type</th>
<th>Proprietary Acrylic Copolymer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pigment Type</td>
<td>Titanium Dioxide</td>
</tr>
<tr>
<td>Volume Solids</td>
<td>39 ± 2%</td>
</tr>
<tr>
<td>Coverage per Gallon at Recommended Film Thickness</td>
<td>350 – 400 sq. ft.</td>
</tr>
<tr>
<td>Recommended Film Thickness – Wet</td>
<td>4.3 mils</td>
</tr>
<tr>
<td>Recommended Film Thickness – Dry</td>
<td>1.7 mils</td>
</tr>
</tbody>
</table>

Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint.

- Dry Time @ 77 °F (25 °C) @ 50% RH
  - To Touch 1 Hour
  - To Recoat 2-3 Hours

Painted surfaces can be washed after two weeks. High humidity and cool temperatures will result in longer dry, recoat and service times.

- Dries By Coalescence
- Viscosity 97 ± 3 KU
- Flash Point N/A
- Gloss / Sheen Satin (20-35 @ 60°) (48 @ 85°)
- Surface Temperature at Application
  - Min. 50 °F
  - Max. 90 °F
- Thin With See Chart
- Clean Up Thinner Clean Water
- Weight Per Gallon 10.51 lbs.
- Storage Temperature
  - Min. 40 °F
  - Max. 90 °F

Volatile Organic Compounds (VOC)

86 Grams/Liter 0.71 Lbs./Gallon

◊Reported values are for Pastel Base. Contact Benjamin Moore for values of other bases or color.
Surface Preparation

Surfaces to be painted must be clean, dry, and free of dirt, dust, grease, oil, soap, wax, scaling paint, water soluble materials, and mildew. Remove any peeling or scaling paint and sand these areas to feather edges smooth with adjacent surfaces. Glossy areas should be dulled. Drywall surfaces must be free of sanding dust.

New plaster or masonry surfaces must be allowed to cure 30 days before applying base coat. Cured plaster should be hard, have a slight sheen and maximum PH of 10; soft, porous or powdery plaster indicates improper cure. Never sand a plaster surface; knife off any protrusions and prime plaster before and after applying patching compound. Poured or pre-cast concrete with a very smooth surface should be etched or abraded to promote adhesion, after removing all form release agents and curing compounds.

Remove any powder or loose particles before priming. Wood substrates must be thoroughly dry. Difficult Substrates: Benjamin Moore offers a variety of specialty primers for use over difficult substrates such as bleeding woods, grease stains, crayon markings, hard glossy surfaces, galvanized metal or other substrates where paint adhesion or stain suppression is a particular problem. Your Benjamin Moore® retailer can recommend the right problem-solving primer for your special needs.

WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Carefully clean up with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Primer/Finish Systems

New surfaces should be fully primed, and previously painted surfaces may be primed or spot primed as necessary. For best hind results, tint the primer to the approximate shade of the finish coat, especially when a significant color change is desired. Special Note: Certain custom colors require a Deep Color Base Primer tinted to a special prescription formula to achieve the desired color. Consult your retailer.

Wood, and engineered wood products:

Primer: Ultra Spec® 500 Interior Latex Primer (N534) or Fresh Start® Multi-Purpose Latex Primer (N023)
Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Satin Finish (486)

Bleeding Type Woods, (Redwood and Cedar):

Primer: Fresh Start® Multi-Purpose Oil Based Primer (024) or 1-2 coats of Fresh Start® High-Hiding All Purpose Primer (046) may be used
Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Satin Finish (486)

Drywall:

Primer: Ultra Spec® 500 Interior Latex Primer (N534)
Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Satin Finish (486)

Plaster:

Primer: Fresh Start® High-Hiding All Purpose Primer (046) or Fresh Start® Multi-Purpose Latex Primer (N023)
Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Satin Finish (486)

Rough or Pitted Masonry:

Primer: Ultra Spec® Masonry Interior/Exterior Hi-Build Block Filler (571)
Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Satin Finish (486)

Smooth Poured or Precast Concrete:

Primer: Ultra Spec® Masonry Interior / Exterior 100% Acrylic Masonry Sealer (608)
Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Satin Finish (486)

Ferrous Metal (Steel and Iron):

Primer: Ultra Spec® HP Acrylic Metal Primer (HP04) or Super Spec HP® Alkyd Metal Primer (P06)
Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Satin Finish (486)

Non-Ferrous Metal (Galvanized & Aluminum):

All new metal surfaces must be thoroughly cleaned with Corotech® Oil & Grease Emulsifier (V600) to remove contaminants. New shiny non-ferrous metal surfaces that will be subject to abrasion should be dulled with very fine sandpaper or a synthetic steel wool pad to promote adhesion

Primer: Ultra Spec® HP Acrylic Metal Primer (HP04)
Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Satin Finish (486)

Wallpapered Surfaces: Remove wallpaper when possible, followed by thoroughly cleaning the surfaces removing all glue residue. Once the surface has fully dried, sand the surfaces to be painted with 150-180 grit paper. Vinyl wallpapered surfaces tightly adhered may be primed with Fresh Start® High-Hiding All Purpose Primer (046) prior to filling the seams and top coating with Ultra Spec® SCUFF-X®

Repaint, All Substrates: Prime bare areas with the primer recommended for the substrate above.

Application

Stir thoroughly before use. Apply one or two coats. For best results, use a Benjamin Moore® Professional custom-blended nylon/polyester brush, Benjamin Moore® Professional roller, or a similar product. This product can also be sprayed.

Conditioning with Benjamin Moore® 518 Extender may be necessary under certain conditions to adjust open time or spray characteristics. The chart below is for general guidance

<table>
<thead>
<tr>
<th>Condition</th>
<th>Mild Conditions</th>
<th>Severe Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidity</td>
<td>Mild conditions</td>
<td>Severe conditions</td>
</tr>
<tr>
<td>Diffused</td>
<td>No direct sunlight &amp; with little to no wind</td>
<td>Dry (RH=50%), in direct sunlight, or windy conditions</td>
</tr>
<tr>
<td>Brush</td>
<td>Nylon / Polyester</td>
<td>No thinning necessary</td>
</tr>
<tr>
<td>Roller</td>
<td>Premium Quality 3/8” roller cover</td>
<td>Max. of 8 fl. oz. to a gallon of paint</td>
</tr>
<tr>
<td>Spray</td>
<td>Airless Pressure</td>
<td>Never add other paints or solvents.</td>
</tr>
<tr>
<td>Tip</td>
<td>1800-3000 psi</td>
<td>0.015-0.017</td>
</tr>
</tbody>
</table>

Thinning/Clean Up

Thinning is unnecessary, but if required to obtain desired application properties, a small amount of clean water may be added. Never add other paints or solvents.

Clean up: Use soap and water. Spray equipment should be given a final rinse with mineral spirits to prevent corrosion.

Maintenance: SCUFF-X® needs to fully cure for 2 weeks following application, before applying any cleansing chemicals and liquids. Minimal scuffing and stains can be easily removed by using soap and water. For tougher stains, stronger cleaners may be used with a sponge or rag. Before using a new cleaner for the first time, test its effect on the finish by applying in an inconspicuous area to make sure there’s no damage to the paint film.

USE COMPLETELY OR DISPOSE OF PROPERLY. Dry empty containers may be recycled in a can recycling program. Local disposal requirements vary. Consult your sanitation department or state-designated environmental agency on disposal options.

Environmental Health & Safety Information

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

Keep container closed when not in use. In case of spillage, absorb with inert material and dispose of in accordance with local regulations. Wash thoroughly after handling. Refer to Safety Data Sheet for additional health and safety information.

WARNING Cancer and Reproductive Harm—www.P65warnings.ca.gov

FIRST AID: In case of eye contact, flush immediately with plenty of water for at least 15 minutes; for skin, wash thoroughly with soap and water. If symptoms persist, seek medical attention. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

IN CASE OF SPILL – Absorb with inert material and dispose of as specified under ‘Clean Up’.

KEEP OUT OF REACH OF CHILDREN

PROTECT FROM FREEZING

Refer to Safety Data Sheet for additional health and safety information.
1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ULTRA SPEC SCUFF-X INTERIOR SATIN FINISH, BASE 1
Product Code: 4861X
Alternate Product Code: 4861X
Product Class: WATER THINNED PAINT
Color: All
Recommended use: Paint
Restrictions on use: No information available

Manufacturer:
Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 1-866-708-9180
www.benjaminmoore.com

Emergency Telephone:
CHEMTREC (US): 800-424-9300
CHEMTREC (outside US): (703)-527-3887

2. HAZARDS IDENTIFICATION

Classification
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements
Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Appearance: liquid
Odor: little or no odor

Hazards not otherwise classified (HNOC)
Not applicable

Other information
No information available
3. COMPOSITION INFORMATION ON COMPONENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>25</td>
</tr>
<tr>
<td>Propanoic acid, 2-methyl-, monoester with 2,2,4-trimethyl-1,3-pentanediol</td>
<td>25265-77-4</td>
<td>5</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td>7631-86-9</td>
<td>5</td>
</tr>
<tr>
<td>Sodium C14-C16 olefin sulfonate</td>
<td>68439-57-6</td>
<td>0.5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General Advice
No hazards which require special first aid measures.

Eye Contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation
Move to fresh air. If symptoms persist, call a physician.

Ingestion
Clean mouth with water and afterwards drink plenty of water. Consult a physician if necessary.

Most Important Symptoms/Effects
None known.

Notes To Physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Protective Equipment And Precautions For Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific Hazards Arising From The Chemical
Closed containers may rupture if exposed to fire or extreme heat.

Sensitivity To Mechanical Impact
No

Sensitivity To Static Discharge
No

Flash Point Data
- Flash Point (°F): Not applicable
- Flash Point (°C): Not applicable
- Method: Not applicable

Flammability Limits In Air
6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

Other Information
Prevent further leakage or spillage if safe to do so.

Environmental precautions
See Section 12 for additional Ecological Information.

Methods for Cleaning Up
Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling
Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage
Keep container tightly closed. Keep out of the reach of children.

Incompatible Materials
No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>10 mg/m³ - TWA</td>
<td>15 mg/m³ - TWA</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td>N/E</td>
<td>20 mppcf - TWA</td>
</tr>
</tbody>
</table>

Legend
ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits
OSHA - Occupational Safety & Health Administration Exposure Limits
N/E - Not Established

Engineering Measures
Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment

Eye/Face Protection
- Safety glasses with side-shields.

Skin Protection
- Protective gloves and impervious clothing.

Respiratory Protection
- In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene Measures
- Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>little or no odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>Density (lbs/gal)</td>
<td>10.3 - 10.7</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.23 - 1.28</td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity (cps)</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>No information available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor pressure @20 °C (kPa)</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
</tr>
<tr>
<td>Wt. % Solids</td>
<td>45 - 55</td>
</tr>
<tr>
<td>Vol. % Solids</td>
<td>35 - 45</td>
</tr>
<tr>
<td>Wt. % Volatiles</td>
<td>45 - 55</td>
</tr>
<tr>
<td>Vol. % Volatiles</td>
<td>55 - 65</td>
</tr>
<tr>
<td>VOC Regulatory Limit (g/L)</td>
<td>&lt; 100</td>
</tr>
<tr>
<td>Boiling Point (°F)</td>
<td>212</td>
</tr>
<tr>
<td>Boiling Point (°C)</td>
<td>100</td>
</tr>
<tr>
<td>Freezing Point (°F)</td>
<td>32</td>
</tr>
<tr>
<td>Freezing Point (°C)</td>
<td>0</td>
</tr>
<tr>
<td>Flash Point (°F)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Method</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper flammability limit:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower flammability limit:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Autoignition Temperature (°F)</td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition Temperature (°C)</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition Temperature (°F)</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition Temperature (°C)</td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
- Not Applicable

Chemical Stability
- Stable under normal conditions.

Conditions to avoid
- Prevent from freezing.

Incompatible Materials
- No materials to be especially mentioned.
**Hazardous Decomposition Products**  
None under normal use.

**Possibility of hazardous reactions**  
None under normal conditions of use.

# 11. TOXICOLOGICAL INFORMATION

## Product Information

### Information on likely routes of exposure

**Principal Routes of Exposure**  
Eye contact, skin contact and inhalation.

### Acute Toxicity

**Product Information**  
No information available

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms**  
No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Eye contact**  
May cause slight irritation.

**Skin contact**  
Substance may cause slight skin irritation. Prolonged or repeated contact may dry skin and cause irritation.

**Inhalation**  
May cause irritation of respiratory tract.

**Ingestion**  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Sensitization**  
No information available

**Neurological Effects**  
No information available.

**Mutagenic Effects**  
No information available.

**Reproductive Effects**  
No information available.

**Developmental Effects**  
No information available.

**Target organ effects**  
No information available.

**STOT - single exposure**  
No information available.

**STOT - repeated exposure**  
No information available.

**Other adverse effects**  
No information available.

**Aspiration Hazard**  
No information available

### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

<table>
<thead>
<tr>
<th>ATEmix (oral)</th>
<th>31251 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATEmix (dermal)</td>
<td>140786</td>
</tr>
</tbody>
</table>

## Component Information

**Titanium dioxide**  
LD50 Oral: > 10000 mg/kg (Rat)

**Silica, amorphous**  
LD50 Oral: > 5000 mg/kg (Rat)

LD50 Dermal: 2,000 mg/kg (Rabbit)

LC50 Inhalation (Dust): > 2 mg/L
Carcinogenicity

The information below indicates whether each agency has listed any ingredient as a carcinogen:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>2B - Possible Human</td>
<td>Listed</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Carcinogen</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

Legend
IARC - International Agency for Research on Cancer
NTP - National Toxicity Program
OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects
The environmental impact of this product has not been fully investigated.

Product Information

Acute Toxicity to Fish
No information available

Acute Toxicity to Aquatic Invertebrates
No information available

Acute Toxicity to Aquatic Plants
No information available

Persistence / Degradability
No information available.

Bioaccumulation
No information available.

Mobility in Environmental Media
No information available.

Ozone
No information available

Component Information

Acute Toxicity to Fish
Titanium dioxide
LC50: > 1000 mg/L (Fathead Minnow - 96 hr.)

Acute Toxicity to Aquatic Invertebrates
Acute Toxicity to Aquatic Plants
No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method
Dispose of in accordance with federal, state, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

14. TRANSPORT INFORMATION

DOT
Not regulated

ICAO / IATA
Not regulated

IMDG / IMO
Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA: United States
Yes - All components are listed or exempt.

DSL: Canada
No - Not all of the components are listed.
One or more component is listed on NDSL.

Federal Regulations

SARA 311/312 hazardous categorization
Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

None

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product contains the following HAPs:

None
US State Regulations

California Proposition 65

⚠️ WARNING: Cancer and Reproductive Harm— www.P65warnings.ca.gov

State Right-to-Know

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

Legend

X - Listed

16. OTHER INFORMATION

HMIS -

Health: 1  Flammability: 0  Reactivity: 0  PPE: -

HMIS Legend

0 - Minimal Hazard
1 - Slight Hazard
2 - Moderate Hazard
3 - Serious Hazard
4 - Severe Hazard
* - Chronic Hazard

X - Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

⚠️ WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Prepared By

Product Stewardship Department
Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
800-225-5554

Revision Date: 24-Oct-2018
Revision Summary: Not available
Disclaimer
The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.

END OF SAFETY DATA SHEET
**Features**
- Innovative and proprietary scuff-resistance formula
- Superior durability
- Washable
- Quick dry
- Great touch-up
- Easy application
- Spatter resistant
- Qualifies for LEED® v4 credit
- Suitable for use in USDA inspected facilities

**Recommended For**
Ideal for high-traffic areas in commercial spaces such as school hallways, hospital waiting areas, hotels lobbies, gym locker rooms and bathrooms, retail fitting rooms, cafeterias, bathrooms and stairwells. For use on primed or previously painted drywall, plaster, wood, metal and wallpapered surfaces.

**Certifications & Qualifications:**
VOC compliant in all regulated areas except for SCAQMD
- Qualifies for LEED® v4 Credit
- Qualifies for CHPS low emitting credit (Collaborative for High Performance Schools)
- CDPH v1 Emission Certified
- Class A (0-25) over non-combustible surfaces when tested in accordance with ASTM E-64
- Suitable for use in USDA inspected facilities
- Anti-microbial - This product contains agents which inhibit the growth of microbes on the surface of this paint film. This product contains antimicrobial additives that inhibit the growth of mold and mildew on the surface of the paint film.

**Technical Assistance**
Available through your local authorized independent Benjamin Moore retailer. For the location of the retailer nearest you, call 1-866-708-9180 or visit [www.benjaminmoore.com](http://www.benjaminmoore.com)

**General Description**
A high-performance, one-component latex paint specifically engineered to deliver outstanding performance and protection for the toughest high-traffic areas in busy commercial spaces. This breakthrough product offers superior durability and scuff-resistance than traditional high-performance two-component coatings, without the pre-mixing, short pot-life and application difficulties related to similar products. It will retain its high-quality appearance longer with minimal maintenance and repainting required. The beautiful eggshell finish is perfect hallways, fitting rooms and waiting areas.

**Limitations**
- Do not apply when air and surface temperatures are below 50 °F (10 °C)
- Not recommended for floors
- Interior use only

**Product Information**

<table>
<thead>
<tr>
<th>Colors — Standard:</th>
<th>Pastel Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>White (01)</td>
<td>Proprietary Acrylic Copolymer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>— Tint Bases:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benjamin Moore® Gennex® bases 1X, 2X, 3X &amp; 4X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>— Special Colors:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact your Benjamin Moore representative</td>
</tr>
</tbody>
</table>

**Technical Data**

<table>
<thead>
<tr>
<th>Vehicle Type</th>
<th>Proprietary Acrylic Copolymer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pigment Type</td>
<td>Titanium Dioxide</td>
</tr>
<tr>
<td>Volume Solids</td>
<td>40 ± 2%</td>
</tr>
<tr>
<td>Coverage per Gallon at Recommended Film Thickness</td>
<td>350 - 400 sq. ft.</td>
</tr>
<tr>
<td>Recommended Film Thickness</td>
<td>4.3 mils (Wet)</td>
</tr>
<tr>
<td></td>
<td>1.7 mils (Dry)</td>
</tr>
</tbody>
</table>

Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint.

<table>
<thead>
<tr>
<th>Dry Time @ 77 °F (25 °C) @ 50% RH</th>
<th>1 Hour To Touch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Painted surfaces can be washed after two weeks. High humidity and cool temperatures will result in longer dry, recoat and service times</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dries By</th>
<th>Coalescence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity</td>
<td>97 ± 3 KU</td>
</tr>
<tr>
<td>Flash Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Gloss / Sheen</td>
<td>Eggshell (15-25 @ 85°) (15 @ 60°)</td>
</tr>
<tr>
<td>Surface Temperature at Application</td>
<td>50 °F Min.</td>
</tr>
<tr>
<td>Thin With</td>
<td>See Chart</td>
</tr>
<tr>
<td>Clean Up Thinner</td>
<td>Clean Water</td>
</tr>
<tr>
<td>Weight Per Gallon</td>
<td>10.83 lbs.</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>40 °F Min.</td>
</tr>
</tbody>
</table>

**Volatile Organic Compounds (VOC)**
- 88.4 Grams/Liter
- 0.74 Lbs./Gallon

(Reported values are for Pastel Base. Contact Benjamin Moore for values of other bases or color.)
Surface Preparation

Surfaces to be painted must be clean, dry, and free of dirt, dust, grease, oil, soap, wax, scaling paint, water soluble materials, and mildew. Remove any peeling or scaling paint and sand these areas to feather edges smooth with adjacent surfaces. Glossy areas should be dulled. Drywall surfaces must be free of sanding dust.

New plaster or masonry surfaces must be allowed to cure 30 days before applying basecoat. Cured plaster should be hard, have a slight sheen and maximum PH of 10; soft, porous or powdery plaster indicates improper cure. Never sand a plaster surface; knife off any protrusions and prime plaster before and after applying patching compound. Poured or pre-cast concrete with a very smooth surface should be etched or abraded to promote adhesion, after removing all form release agents and curing compounds. Remove any powder or loose particles before priming. Wood substrates must be thoroughly dry.

Difficult Substrates: Benjamin Moore offers a variety of specialty primers for use over difficult substrates such as bleeding woods, grease stains, crayon markings, high gloss surfaces, galvanized metal or other substrates where paint adhesion or stain suppression is a particular problem. Your Benjamin Moore® retailer can recommend the right problem-solving primer for your special needs.

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Primer/Finish Systems

New surfaces should be fully primed, and previously painted surfaces may be primed or spot primed as necessary. For best hiding results, tint the primer to the approximate shade of the finish coat, especially when a significant color change is desired. Special Note: Certain custom colors require a Deep Color Base Primer tinted to a special prescription formula to achieve the desired color. Consult your retailer.

Wood, and engineered wood products:
Primer: Ultra Spec® 500 Interior Latex Primer (N534) or Fresh Start® Multi- Purpose Latex Primer (N023)
Finish: 1 or 2 coats of Ultra Spec® SCUFF-X® Interior Eggshell Finish (485)

Bleeding Type Woods, (Redwood and Cedar):
Primer: Fresh Start® Multi-Purpose Oil Based Primer (024) or 1-2 coats of Fresh Start® High-Hiding All Purpose Primer (046) may be used
Drywall:
Primer: Ultra Spec® 500 Interior Latex Primer (N534)
Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Eggshell Finish (485)

Plaster:
Primer: Fresh Start® High-Hiding All Purpose Primer (046) or Fresh Start® Multi-Purpose Latex Primer (N023)
Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Eggshell Finish (485)

Rough or Pitted Masonry:
Primer: Ultra Spec® Masonry Interior/Exterior Hi-Build Block Filler (571)
Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Eggshell Finish (485)

Smooth Poured or Precast Concrete:
Primer: Ultra Spec® Masonry Interior / Exterior 100% Acrylic Masonry Sealer (608)
Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Eggshell Finish (485)

Ferrous Metal (Steel and Iron):
Primer: Ultra Spec® HP Acrylic Metal Primer (HP04) or Super Spec HP® Alkyd Metal Primer (IP06)
Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Eggshell Finish (485)

Non-Ferrous Metal (Galvanized & Aluminum): All new metal surfaces must be thoroughly cleaned with Corotech® Oil & Grease Emulsifier (V600) to remove contaminants. New shiny non-ferrous metal surfaces that will be subject to abrasion should be dulled with very fine sandpaper or a synthetic steel wool pad to promote adhesion
Primer: Ultra Spec® HP Acrylic Metal Primer (HP04)
Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Eggshell Finish (485)

Wallpapered Surfaces: Remove wallpaper when possible, followed by thoroughly cleaning the surfaces removing all glue residue. Once the surface has fully dried, sand the surfaces to be painted with 150-180 grit paper. Vinyl wallpapered surfaces tightly adhered may be primed with Fresh Start® High-Hiding All Purpose Primer (046) prior to filling the seams and top coating with Ultra Spec® SCUFF-X®

Repaint, All Substrates: Prime bare areas with the primer recommended for the substrate above.

Application

Stir thoroughly before use. Apply one or two coats. For best results, use a Benjamin Moore® Professional custom-blended nylon/polyester brush, Benjamin Moore® Professional roller, or a similar product. This product can also be sprayed.

Conditioning with Benjamin Moore® 518 Extender may be necessary under certain conditions to adjust open time or spray characteristics. The chart below is for general guidance.

<table>
<thead>
<tr>
<th>Condition</th>
<th>Brush:</th>
<th>Roller:</th>
<th>Spray:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild conditions</td>
<td>Humid (RH&gt;50%) with no direct sunlight &amp; with little to no wind</td>
<td>No thinning necessary</td>
<td>No airless necessary</td>
</tr>
<tr>
<td>Severe conditions</td>
<td>Dry (RH&lt;50%), in direct sunlight, or windy conditions</td>
<td>Max of 8 fl. oz. to a gallon of paint</td>
<td>Never add other paints or solvents</td>
</tr>
</tbody>
</table>

Thinning/Clean Up

Thinning is unnecessary, but if required to obtain desired application properties, a small amount of clean water may be added. Never add other paints or solvents.

Clean up: Use soap and water. Spray equipment should be given a final rinse with mineral spirits to prevent corrosion.

Maintenance: SCUFF-X® needs to fully cure for 2 weeks following application, before applying any cleaning chemicals and liquids. Minimal scuffing and stains can be easily removed by using soap and water. For tougher stains, stronger cleaners may be used with a sponge or rag. Before using a new cleaner for the first time, test its effect on the finish by applying in an inconspicuous area to make sure there’s no damage to the paint film.

USE COMPLETELY OR DISPOSE OF PROPERLY. Dry empty containers may be recycled in a can recycling program. Local disposal requirements vary; consult your sanitation department or state-designated environmental agency on disposal options.

Environmental Health & Safety Information

Use only with adequate ventilation. Do not breathe spray mist or sanding dust. Ensure fresh air entry during application and drying. Avoid contact with eyes and prolonged or repeated contact with skin. Avoid exposure to dust and spray mist by wearing a NIOSH approved respirator during application, sanding and clean up. Follow respirator manufacturer’s directions for respirator use. Close container after each use. Wash thoroughly after handling.

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS). Keep container closed when not in use. In case of spillage, absorb with inert material and dispose of in accordance with local regulations. Wash thoroughly after handling. Refer to Safety Data Sheet for additional health and safety information.

WARNING! Cancer and Reproductive Harm—www.P65warnings.ca.gov

FIRST AID: In case of eye contact, flush immediately with plenty of water for at least 15 minutes; for skin, wash thoroughly with soap and water. If symptoms persist, seek medical attention. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

IN CASE OF SPILL – Absorb with inert material and dispose of as specified under “Clean Up.”

KEEP OUT OF REACH OF CHILDREN
PROTECT FROM FREEZING

Refer to Safety Data Sheet for additional health and safety information.
1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ULTRA SPEC SCUFF-X INTERIOR EGGSHELL FINISH, BASE 1
Product Code: 4851X
Alternate Product Code: 4851X
Product Class: WATER THINNED PAINT
Color: All
Recommended use: Paint
Restrictions on use: No information available

Manufacturer: Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 1-866-708-9180
www.benjaminmoore.com

Emergency Telephone:
CHEMTREC (US): 800-424-9300
CHEMTREC (outside US): (703)-527-3887

2. HAZARDS IDENTIFICATION

Classification
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements
Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Appearance: liquid
Odor: little or no odor

Hazards not otherwise classified (HNOC)
Not applicable

Other information
No information available
3. COMPOSITION INFORMATION ON COMPONENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>20 - 25</td>
</tr>
<tr>
<td>Propanoic acid, 2-methyl-, monoester with</td>
<td>25265-77-4</td>
<td>1 - 5</td>
</tr>
<tr>
<td>2,2,4-trimethyl-1,3-pentanediol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td>7631-86-9</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Sodium C14-C16 olefin sulfonate</td>
<td>68439-57-6</td>
<td>0.1 - 0.5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General Advice
No hazards which require special first aid measures.

Eye Contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation
Move to fresh air. If symptoms persist, call a physician.

Ingestion
Clean mouth with water and afterwards drink plenty of water. Consult a physician if necessary.

Most Important Symptoms/Effects
None known.

Notes To Physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Protective Equipment And Precautions For Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific Hazards Arising From The Chemical
Closed containers may rupture if exposed to fire or extreme heat.

Sensitivity To Mechanical Impact
No

Sensitivity To Static Discharge
No

Flash Point Data
- Flash Point (°F): Not applicable
- Flash Point (°C): Not applicable
- Method: Not applicable

Flammability Limits In Air

Page 2 / 9
6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

Other Information
Prevent further leakage or spillage if safe to do so.

Environmental precautions
See Section 12 for additional Ecological Information.

Methods for Cleaning Up
Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling
Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage
Keep container tightly closed. Keep out of the reach of children.

Incompatible Materials
No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>10 mg/m³ - TWA</td>
<td>15 mg/m³ - TWA</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td>N/E</td>
<td>20 mppcf - TWA</td>
</tr>
</tbody>
</table>

Legend
ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits
OSHA - Occupational Safety & Health Administration Exposure Limits
N/E - Not Established

Engineering Measures
Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment

Eye/Face Protection: Safety glasses with side-shields.
Skin Protection: Protective gloves and impervious clothing.
Respiratory Protection: In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene Measures: Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>little or no odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>Density (lbs/gal)</td>
<td>10.4 - 10.8</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.25 - 1.30</td>
</tr>
<tr>
<td>pH</td>
<td>No information available</td>
</tr>
<tr>
<td>Viscosity (cps)</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility (i.e.s)</td>
<td>No information available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
</tr>
<tr>
<td>Wt. % Solids</td>
<td>50 - 60</td>
</tr>
<tr>
<td>Vol. % Solids</td>
<td>35 - 45</td>
</tr>
<tr>
<td>Wt. % Volatiles</td>
<td>40 - 50</td>
</tr>
<tr>
<td>Vol. % Volatiles</td>
<td>55 - 65</td>
</tr>
<tr>
<td>VOC Regulatory Limit (g/L)</td>
<td>&lt; 100</td>
</tr>
<tr>
<td>Boiling Point (°F)</td>
<td>212</td>
</tr>
<tr>
<td>Boiling Point (°C)</td>
<td>100</td>
</tr>
<tr>
<td>Freezing Point (°F)</td>
<td>32</td>
</tr>
<tr>
<td>Freezing Point (°C)</td>
<td>0</td>
</tr>
<tr>
<td>Flash Point (°F)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Method</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper flammability limit:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower flammability limit:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Autoignition Temperature (°F)</td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition Temperature (°C)</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition Temperature (°F)</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition Temperature (°C)</td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity: Not Applicable
Chemical Stability: Stable under normal conditions.
Conditions to avoid: Prevent from freezing.
Incompatible Materials: No materials to be especially mentioned.
Hazardous Decomposition Products
None under normal use.
Possibility of hazardous reactions
None under normal conditions of use.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

#### Information on likely routes of exposure

**Principal Routes of Exposure**
Eye contact, skin contact and inhalation.

**Acute Toxicity**

**Product Information**
No information available

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms**
No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Eye contact**
May cause slight irritation.

**Skin contact**
Substance may cause slight skin irritation. Prolonged or repeated contact may dry skin and cause irritation.

**Inhalation**
May cause irritation of respiratory tract.

**Ingestion**
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Sensitization**
No information available

**Neurological Effects**
No information available.

**Mutagenic Effects**
No information available.

**Reproductive Effects**
No information available.

**Developmental Effects**
No information available.

**Target organ effects**
No information available.

**STOT - single exposure**
No information available.

**STOT - repeated exposure**
No information available.

**Other adverse effects**
No information available.

**Aspiration Hazard**
No information available

### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)**
29740 mg/kg

**ATEmix (dermal)**
132160 mg/kg

### Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide, 13463-67-7</td>
<td>&gt; 10000 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Propanoic acid, 2-methyl-, monoester with 2,2,4-trimethyl-1,3-pentanediol</td>
<td>= 3200 mg/kg (Rat)</td>
<td>&gt; 15200 mg/kg (Rat)</td>
<td>&gt; 3.55 mg/L (Rat) 6 h</td>
</tr>
<tr>
<td>Silica, amorphous, 25265-77-4</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>&gt; 2.2 mg/L (Rat) 1 h</td>
</tr>
</tbody>
</table>
Carcinogenicity

The information below indicates whether each agency has listed any ingredient as a carcinogen:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>2B - Possible Human Carcinogen</td>
<td>Listed</td>
<td></td>
</tr>
</tbody>
</table>

• Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

Legend

IARC - International Agency for Research on Cancer
NTP - National Toxicity Program
OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects
The environmental impact of this product has not been fully investigated.

Product Information

Acute Toxicity to Fish
No information available

Acute Toxicity to Aquatic Invertebrates
No information available

Acute Toxicity to Aquatic Plants
No information available

Persistence / Degradability
No information available.

Bioaccumulation
No information available.

Mobility in Environmental Media
No information available.

Ozone
No information available

Component Information

Acute Toxicity to Fish
Titanium dioxide
LC50: > 1000 mg/L (Fathead Minnow - 96 hr.)
Acute Toxicity to Aquatic Invertebrates
No information available

Acute Toxicity to Aquatic Plants
No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method
Dispose of in accordance with federal, state, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

14. TRANSPORT INFORMATION

DOT
Not regulated

ICAO / IATA
Not regulated

IMDG / IMO
Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA: United States
Yes - All components are listed or exempt.

DSL: Canada
No - Not all of the components are listed.
One or more component is listed on NDSL.

Federal Regulations

SARA 311/312 hazardous categorization
Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

None

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product contains the following HAPs:
None

**US State Regulations**

**California Proposition 65**

⚠️ **WARNING:** Cancer and Reproductive Harm—www.P65warnings.ca.gov

**State Right-to-Know**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

**Legend**

X - Listed

### 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS -</th>
<th>Health: 1</th>
<th>Flammability: 0</th>
<th>Reactivity: 0</th>
<th>PPE: -</th>
</tr>
</thead>
</table>

**HMIS Legend**

0 - Minimal Hazard  
1 - Slight Hazard  
2 - Moderate Hazard  
3 - Serious Hazard  
4 - Severe Hazard  
* - Chronic Hazard

X - Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

**WARNING!** If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

**Prepared By**

Product Stewardship Department  
Benjamin Moore & Co.  
101 Paragon Drive  
Montvale, NJ 07645  
800-225-5554
Disclaimer
The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.

END OF SAFETY DATA SHEET
STIX®
WATERBORNE BONDING PRIMER
SXA-110

Features
- Strongly Bonds to Glossy Surfaces
- Unparalleled Adhesion to the Most Challenging Surfaces.
- Excellent Holdout
- Soap & Water Clean-up
- Cures as low as 35 °F (1.7 °C)

Recommended For
Interior and Exterior surfaces. Drywall, Plaster, Ceiling, Acoustical Tile, Wood Trim & Doors, Formica, Ceramic Tiles, Glossy Surfaces, PVC Plastic, Masonry Walls, Wood, Trim, Shutters, Masonry, Stucco, Concrete, Cement Block, Galvanized Metal, Aluminum, etc.

General Description
Stix® Waterborne Bonding Primer is a premium quality, waterborne, acrylic urethane primer/sealer with unparalleled adhesion to the most challenging surfaces, including PVC, Vinyl, Plastic, Glass, Tile, Glazed Block, Glossy Paints, Pre-Coated Siding, Fiberglass, and Galvanized Metals. Stix is also ideal for use on plaster, drywall, wood, and non-ferrous metals, where a low ambient or surface temperature would present a problem for conventional primers. Offers an extremely hard film when cured. Use it on interior and exterior surfaces and topcoat with almost any type of coating including Alkyd, Acrylic Latex, Urethane, Epoxy, and Lacquer Finishes. Stix levels to a smooth surface and cleans up with soap and water.

Limitations
- Apply when air and surface temperatures are above 35 °F
- Do not apply in direct sunlight or on a hot surface. Avoid rain, moisture or high humidity for the first 24 hours of curing
- Not intended for immersion service or continuous water contact. Not for below grade applications
- Not recommended for use over polyethylene or polypropylene. Stix® must be top coated for exterior use
- Not recommended over Kynar® (and similar finishes) unless tested and approved by the buyer
- Not recommended as a whole house exterior primer over wood

Recommended Film Thickness
- Wet – 4.0 - 5.5 mils
- Dry – 1.6 - 2.2 mils

Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint.

Technical Assistance:
Available through your local authorized independent Insix dealer. For the location of the dealer nearest you, call 1-866-708-9180 or see www.insi-x.com

Product Information

<table>
<thead>
<tr>
<th>Colors — Standard:</th>
<th>Technical Data</th>
<th>White</th>
</tr>
</thead>
<tbody>
<tr>
<td>SXA-110, White</td>
<td>Vehicle Type</td>
<td>Urethane Modified Acrylic</td>
</tr>
<tr>
<td></td>
<td>Pigment Type</td>
<td>Titanium Dioxide</td>
</tr>
<tr>
<td>— Tint Bases:</td>
<td>Volume Solids</td>
<td>40.0 ± 1.0%</td>
</tr>
<tr>
<td>N/A</td>
<td>Coverage per Gallon at Recommended Film Thickness</td>
<td>300 – 400 Sq. Ft.</td>
</tr>
<tr>
<td>Can be Tinted With a Maximum of 2 oz. Universal Colorant per gallon</td>
<td>Recommended Film Thickness</td>
<td>– Wet – 4.0 - 5.5 mils</td>
</tr>
<tr>
<td></td>
<td>– Dry – 1.6 - 2.2 mils</td>
<td></td>
</tr>
<tr>
<td>— Special Colors:</td>
<td>Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint.</td>
<td></td>
</tr>
<tr>
<td>Contact your dealer.</td>
<td>Dry Time @ 77 °F (25 °C) @ 50% RH</td>
<td>– Tack Free – 30 Minutes</td>
</tr>
<tr>
<td></td>
<td>– To Recoat – 3 – 4 Hours</td>
<td></td>
</tr>
<tr>
<td></td>
<td>– Full Cure – 3 – 4 Days</td>
<td></td>
</tr>
<tr>
<td></td>
<td>High humidity and cool temperatures will result in longer dry, recoat and service times.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dries By</td>
<td>Coalescence</td>
</tr>
<tr>
<td></td>
<td>Viscosity</td>
<td>70 – 80 KU</td>
</tr>
<tr>
<td></td>
<td>Flash Point</td>
<td>200 °F or greater (TT-P-141, Method 4293)</td>
</tr>
<tr>
<td></td>
<td>Gloss / Sheen</td>
<td>Flat</td>
</tr>
<tr>
<td></td>
<td>Surface Temperature at Application</td>
<td>– Min. 35 °F</td>
</tr>
<tr>
<td></td>
<td>– Max. 90 °F</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Thin With</td>
<td>Do Not Thin</td>
</tr>
<tr>
<td></td>
<td>Clean Up Thinner</td>
<td>Warm, Soapy Water</td>
</tr>
<tr>
<td></td>
<td>Weight Per Gallon</td>
<td>11.0 lbs.</td>
</tr>
<tr>
<td></td>
<td>Storage Temperature</td>
<td>– Min. 45 °F</td>
</tr>
<tr>
<td></td>
<td>– Max. 95 °F</td>
<td></td>
</tr>
</tbody>
</table>

Volatile Organic Compounds (VOC)
87.6 grams/liter .73 lbs./gallon

◊ Reported values are for White. Contact dealer for values of other bases or colors.
Surface Preparation

General – All surface areas to be painted should be clean, dry, sound and free of all dirt, grease, oils, waxes, mildew and any other surface contaminants that can cause paint failure. Dirt and chalk should be thoroughly removed by scrubbing with warm soapy water. Surface wax should be removed with a commercial wax stripper. Grease residue should be removed with a grease and oil emulsifier. Remove all loose clipping, cracking and peeling from previously painted surfaces by hand scraping, sanding, wire brushing and/or by use of power tool cleaning methods such as electric sanders, grinders, etc. Remove any loose rust, mill scale, rust deposits from metal surfaces by hand or power tool cleaning according to SSPC Standards. Repair/replace any seriously damaged and/or delaminated surface areas. Use over most glossy surfaces without sanding.

Mildew – Surface areas affected by mildew should be thoroughly hand scrubbed with a soft to medium bristle scrub brush and a solution of one cup Tri-Sodium Phosphate or a non-ammoniated detergent cleaner mixed with one-part household bleach* and three parts warm water, per gallon solution. Allow solution to stand on the affected surface areas for approximately 10 – 20 minutes, then rinse thoroughly with clean water and allow 24 – 48 hours to dry. *Follow bleach manufacturer’s instructions for safe handling and use of bleach solution.

SPECIAL NOTE ON SURFACE PREPARATION:

Glossy Surfaces – Although Stix® is formulated to be applied to hard to coat surfaces without the need for sanding, it is recommended that proper surface preparation still be completed to enhance adhesion properties. Surfaces such as Formica, ceramic tile and glossy painted surfaces should be properly deglossed. Once applied, allow Stix® to cure for approximately 3 to 4 days to achieve maximum resistance to scrape off. However, Stix® may be topcoated with a quality latex or oil-based finish within 3 to 4 hours, depending on overall drying conditions.

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Application

Stix® may be applied by brush, roller, pad applicator, or airless spray. Use a high quality nylon brush or a ¼” – ½” synthetic nap roller cover. Do not thin. Do not apply when surface, air, or product temperature is below 35 °F. Do not paint in direct sun or on a hot surface. If possible, plan your painting to avoid rain, moisture, or high humidity for the first 24 hours of curing. Stop application a minimum of two hours before rain or dew is expected. Do not paint if surface temperature is within 5 °F of the dew point. When top coating with two component paints, allow 24 hours dry time before painting. Always test questionable substrates such as plastics, composites, Kynars, and polyester surfaces by applying a small area for adhesion and top-coat compatibility before proceeding with the entire job.

Airless Spray: Tip range between .013 and .017. Total fluid output pressure at the tip should not be less than 2200 PSI. Preferred pressure is 2500 PSI.

Clean Up

Clean brushes, rollers and other equipment with warm, soapy water immediately after use. If dry, clean with lacquer thinner.

USE COMPLETELY OR DISPOSE OF PROPERLY. Dry empty containers may be recycled in a can recycling program. Local disposal requirements vary; consult your sanitation department or state-designated environmental agency on disposal options.

Environmental Health & Safety Information

Cancer Hazard. Contains Crystalline Silica that can cause cancer when in respirable form (spray mist or sanding dust).

Use only with adequate ventilation. Do not breathe spray mist or sanding dust. Ensure fresh air entry during application and drying. Avoid contact with eyes and prolonged or repeated contact with skin. Avoid exposure to dust and spray mist by wearing a NIOSH approved respirator during application, sanding and clean up. Follow respirator manufacturer’s directions for respirator use. Close container after each use. Wash thoroughly after handling.

FIRST AID: In case of eye contact, flush immediately with plenty of water for at least 15 minutes; for skin, wash thoroughly with soap and water. If symptoms persist, seek medical attention. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

IN CASE OF SPILL – Absorb with inert material and dispose of as specified under “Clean Up”.

KEEP OUT OF REACH OF CHILDREN

PROTECT FROM FREEZING

Refer to Safety Data Sheet for additional health and safety information.
1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: STIX WATERBORNE BONDING PRIMER WHITE
Product Code: SXA-110
Alternate Product Code: XA0501
Product Class: WATER THINNED PAINT
Color: White
Recommended use: Primers
Restrictions on use: No information available

Manufacturer: Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 1-866-708-9180
insl-x.com

Emergency Telephone:
CHEMTREC (US): 800-424-9300
CHEMTREC (outside US): (703)-527-3887

2. HAZARDS IDENTIFICATION

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Carcinogenicity: Category 1A

Label elements

Danger

Hazard statements
May cause cancer

Appearance: liquid
Odor: little or no odor

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Not applicable

Other information
No information available

### 3. COMPOSITION INFORMATION ON COMPONENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>14807-96-6</td>
<td>20</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>15</td>
</tr>
<tr>
<td>2,2,4-trimethyl-1,3-propanediol diisobutyrate</td>
<td>6846-50-0</td>
<td>5</td>
</tr>
<tr>
<td>2-Amino-2-methyl-1-propanol</td>
<td>124-68-5</td>
<td>0.5</td>
</tr>
<tr>
<td>Silica, crystalline</td>
<td>14808-60-7</td>
<td>0.5</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**General Advice**
No hazards which require special first aid measures.

**Eye Contact**
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin Contact**
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**Inhalation**
Move to fresh air. If symptoms persist, call a physician.

**Ingestion**
Clean mouth with water and afterwards drink plenty of water. Consult a physician if necessary.

**Most Important Symptoms/Effects**
None known.

**Notes To Physician**
Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Protective Equipment And Precautions For Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific Hazards Arising From The Chemical
Closed containers may rupture if exposed to fire or extreme heat.

Sensitivity To Mechanical Impact
No

Sensitivity To Static Discharge
No

Flash Point Data
Flash Point (°F) Not applicable
Flash Point (°C) Not applicable
Method Not applicable

Flammability Limits In Air
Lower flammability limit: Not applicable
Upper flammability limit: Not applicable

NFPA Health: 1 Flammability: 0 Instability: 0 Special: Not Applicable

NFPA Legend
0 - Not Hazardous
1 - Slightly
2 - Moderate
3 - High
4 - Severe

The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

Other Information
Prevent further leakage or spillage if safe to do so.

Environmental precautions
See Section 12 for additional Ecological Information.

Methods for Cleaning Up
Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling
Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage
Keep container tightly closed. Keep out of the reach of children.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>2 mg/m³ - TWA</td>
<td>20 mppcf - TWA</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>10 mg/m³ - TWA</td>
<td>15 mg/m³ - TWA</td>
</tr>
<tr>
<td>Silica, crystalline</td>
<td>0.025 mg/m³ - TWA</td>
<td>-</td>
</tr>
</tbody>
</table>

Legend
ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits
OSHA - Occupational Safety & Health Administration Exposure Limits
N/E - Not Established

Engineering Measures
Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment
Eye/Face Protection Safety glasses with side-shields.
Skin Protection Protective gloves and impervious clothing.
Respiratory Protection In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene Measures
Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid
Odor little or no odor
Odor Threshold No information available
Density (lbs/gal) 11.2 - 11.3
Specific Gravity 1.34 - 1.36
pH No information available
Viscosity (cps) No information available
Solubility(ies) No information available
Water solubility No information available
Evaporation Rate No information available
Vapor pressure @20 °C (kPa) No information available
Vapor density No information available
Wt. % Solids 50 - 60
Vol. % Solids 35 - 45
Wt. % Volatiles 40 - 50
Vol. % Volatiles 55 - 65
VOC Regulatory Limit (g/L) <100
Boiling Point (°F) 212
Boiling Point (°C) 100
Freezing Point (°F) 32
Freezing Point (°C) 0
Flash Point (°F) Not applicable
Flash Point (°C) Not applicable
Method Not applicable
10. STABILITY AND REACTIVITY

Reactivity
Not Applicable

Chemical Stability
Stable under normal conditions.

Conditions to avoid
Prevent from freezing.

Incompatible Materials
No materials to be especially mentioned.

Hazardous Decomposition Products
None under normal use.

Possibility of hazardous reactions
None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Product Information

Information on likely routes of exposure

Principal Routes of Exposure
Eye contact, skin contact and inhalation.

Acute Toxicity

Product Information
No information available

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms
No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Eye contact
May cause slight irritation.

Skin contact
Substance may cause slight skin irritation. Prolonged or repeated contact may dry skin and cause irritation.

Inhalation
May cause irritation of respiratory tract.

Ingestion
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sensitization
No information available

Neurological Effects
No information available.

Mutagenic Effects
No information available.

Reproductive Effects
No information available.

Developmental Effects
No information available.

Target organ effects
No information available.

STOT - single exposure
No information available.
STOT - repeated exposure  
Causes damage to organs through prolonged or repeated exposure if inhaled.

Other adverse effects  
No information available.

Aspiration Hazard  
No information available

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)  
63687 mg/kg

Component Information

Titanium dioxide
LD50 Oral: > 10000 mg/kg (Rat)
2,2,4-trimethyl-1,3-propanediol diisobutyrate
LD50 Oral: > 3,200 mg/kg (Rat) vendor data
LC50 Inhalation (Vapor): > 5.3 mg/L (Rat)
Silica, crystalline
LD50 Oral: 500 mg/kg (Rat)

Carcinogenicity

The information below indicates whether each agency has listed any ingredient as a carcinogen:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>2B - Possible Human Carcinogen</td>
<td></td>
<td>Listed</td>
</tr>
<tr>
<td>Silica, crystalline</td>
<td>1 - Human Carcinogen</td>
<td>Known Human Carcinogen</td>
<td>Listed</td>
</tr>
</tbody>
</table>

• Crystalline Silica has been determined to be carcinogenic to humans by IARC (1) when in respirable form. Risk of cancer depends on duration and level of inhalation exposure to spray mist or dust from sanding the dried paint.
• Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

Legend

IARC - International Agency for Research on Cancer
NTP - National Toxicity Program
OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

The environmental impact of this product has not been fully investigated.

Product Information

Acute Toxicity to Fish
No information available

Acute Toxicity to Aquatic Invertebrates
No information available

Acute Toxicity to Aquatic Plants
Persistence / Degradability
No information available.

Bioaccumulation
No information available.

Mobility in Environmental Media
No information available.

Ozone
No information available

Component Information

Acute Toxicity to Fish
Titanium dioxide
LC50: > 1000 mg/L (Fathead Minnow - 96 hr.)

Acute Toxicity to Aquatic Invertebrates
No information available

Acute Toxicity to Aquatic Plants
No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method
Dispose of in accordance with federal, state, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

14. TRANSPORT INFORMATION

DOT
Not regulated

ICAO / IATA
Not regulated

IMDG / IMO
Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA: United States
Yes - All components are listed or exempt.

DSL: Canada
Yes - All components are listed or exempt.

Federal Regulations
SARA 311/312 hazardous categorization

- Acute health hazard: No
- Chronic Health Hazard: Yes
- Fire hazard: No
- Sudden release of pressure hazard: No
- Reactive Hazard: No

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

None

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product contains the following HAPs:

None

US State Regulations

California Proposition 65

⚠️ WARNING: Cancer and Reproductive Harm– www.P65warnings.ca.gov

State Right-to-Know

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Magnesium carbonate</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Silica, crystalline</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

Legend

X - Listed

16. OTHER INFORMATION

HMIS -

| Health: 1* | Flammability: 0 | Reactivity: 0 | PPE: - |

HMIS Legend

0 - Minimal Hazard
1 - Slight Hazard
2 - Moderate Hazard
3 - Serious Hazard
4 - Severe Hazard
* - Chronic Hazard

X - Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.
Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

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Revision Date: 03-Oct-2018
Revision Summary Not available

Disclaimer
The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.

END OF SAFETY DATA SHEET
## Features
- Innovative and proprietary scuff-resistance formula
- Superior durability
- Proprietary CHIP-TECH® technology
- Superior block-resistance
- Low VOC; < 50 g/L
- Easy application
- Spatter resistant
- Qualifies for LEED® v4 credit

## General Description
A high-performance, one-component latex coating engineered to deliver outstanding performance and protection for high-traffic, commercial spaces. The Semi-Gloss finish offers a unique blend of toughness and flexibility, rather than just relying on a hard surface, which can be more brittle and subject to chipping. In addition to the superior scuff-resistance, this finish features proprietary CHIP-TECH® chip-resistant technology engineered to withstand the glancing blows and irregular hits that elevator doors, trim, and columns receive on a daily basis.

## Recommended For
Ideal for use on elevator doors, door jambs, trim and base boards, columns, window trim, hallways and stairwells, and other high-traffic commercial areas, including hospitality venues, educational institutions, healthcare facilities, corporate establishments and retail environments. For use on primed or previously painted drywall, plaster, wood, metal and wallpapered surfaces.

## Limitations
- Do not apply when air and surface temperatures are below 50 °F (10 °C)
- Not recommended for floors
- Interior use only

## Certifications & Qualifications:
VOC compliant in all regulated areas
- Qualifies for LEED® v4 Credit
- Qualifies for CHPS low emitting credit (Collaborative for High Performance Schools)
- CDPH v1 Emission Certified
- Class A (0-25) over non-combustible surfaces when tested in accordance with ASTM E-84
- Anti-microbial - This product contains antimicrobial additives that inhibit the growth of mold and mildew on the surface of the paint film.

## Technical Assistance:
Available through your local authorized independent Benjamin Moore retailer. For the location of the retailer nearest you, call 866-708-9180 or visit www.benjaminmoore.com

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### Colors — Standard:
- White (01)

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### Tint Bases:
Benjamin Moore® Gennex® bases 1X & 2X

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### Special Colors:
Contact your Benjamin Moore representative

---

### Technical Data

<table>
<thead>
<tr>
<th>Technical Data</th>
<th>Pastel Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Type</td>
<td>Proprietary Acrylic Copolymer</td>
</tr>
<tr>
<td>Pigment Type</td>
<td>Titanium Dioxide</td>
</tr>
<tr>
<td>Volume Solids</td>
<td>38 ± 2%</td>
</tr>
<tr>
<td>Coverage per Gallon at</td>
<td>350 – 400 sq. ft.</td>
</tr>
<tr>
<td>Recommended Film Thickness</td>
<td></td>
</tr>
<tr>
<td>Recommended Film Thickness – Wet</td>
<td>4.3 mils</td>
</tr>
<tr>
<td>Recommended Film Thickness – Dry</td>
<td>1.6 mils</td>
</tr>
</tbody>
</table>

Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint

- Dry Time @ 77 °F (25 °C) @ 50% RH – To Touch 2 Hours
- To Recoat 4 Hours

Painted surfaces can be washed after two weeks. High humidity and cool temperatures will result in longer dry, recoat and service times

- Dries By Coalescence
- Viscosity 92 ± 2 KU
- Flash Point N/A
- Gloss / Sheen Semi-Gloss (40 - 60 @ 60°)
- Surface Temperature – Min. 50 °F
- Max 90 °F
- Thin With See Chart
- Clean Up Thinner Clean Water
- Weight Per Gallon 10.81 lbs.
- Storage Temperature – Min. 40 °F
- Max. 90 °F

### Volatile Organic Compounds (VOC)
29 Grams/Liter 0.24 Lbs./Gallon

°Reported values are for Pastel Base. Contact Benjamin Moore for values of other bases or color.
Ultra Spec® SCUFF-X® Interior Semi-Gloss Finish 487

Surface Preparation

Surfaces to be painted must be clean, dry, and free of dirt, dust, grease, oil, soap, wax, scaling paint, water soluble materials, and mildew. Remove any peeling or scaling paint and sand these areas to feather edges smooth with adjacent surfaces. Glossy areas should be dulled. Drywall surfaces must be free of sanding dust.

New plaster or masonry surfaces must be allowed to cure 30 days before applying base coat. Cured plaster should be hard, have a slight sheen and maximum PH of 10; soft, porous or powdery plaster indicates improper cure. Never sand a plaster surface; knife off any protrusions and prime platter before and after applying patching compound. Poured or pre-cast concrete with a very smooth surface should be etched or abraded to promote adhesion, after removing all form release agents and curing compounds. Remove any powder or loose particles before priming. Wood substrates must be thoroughly dry.

Difficult Substrates: Benjamin Moore offers a variety of specialty primers for use over different substrates such as bleeding woods, grease stains, crayon markings, hard glossy surfaces, galvanized metal or other substrates where paint adhesion or stain suppression is a particular problem. Your Benjamin Moore® retailer can recommend the right problem-solving primer for your special needs.

WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Carefully clean up with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Primer/Finish Systems

New surfaces should be fully primed, and previously painted surfaces may be primed or spot primed as necessary. For best hiding results, tint the primer to match the approximate shade of the finish coat, especially when a significant color change is desired. Special Note: Certain custom colors require a Deep Color Base Primer tinted to a special prescription formula to achieve the desired color. Consult your retailer.

Wood, and engineered wood products:

- Primer: Ultra Spec® 500 Interior Latex Primer (N534) or Fresh Start® Multi- Purpose Latex Primer (N023)
- Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Semi-Gloss Finish (487)

Bleeding Type Woods, (Redwood and Cedar):

- Primer: Fresh Start® Multi-Purpose Oil Based Primer (P024) or 1-2 coats of Fresh Start® High-Hiding All Purpose Primer (046)
- Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Semi-Gloss Finish (487)

Drywall:

- Primer: Ultra Spec® 500 Interior Latex Primer (N534)
- Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Semi-Gloss Finish (487)

Plaster:

- Primer: Fresh Start® High-Hiding All Purpose Primer (046) or Fresh Start® Multi-Purpose Latex Primer (N023)
- Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Semi-Gloss Finish (487)

Rough or Pitted Masonry:

- Primer: Ultra Spec® Masonry Interior/Exterior Hi-Build Block Filler (571)
- Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Semi-Gloss Finish (487)

Smooth Poured or Precast Concrete:

- Primer: Ultra Spec® Masonry Interior / Exterior 100% Acrylic Masonry Sealer (608)
- Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Semi-Gloss Finish (487)

Ferrous Metal (Steel and Iron):

- Primer: Ultra Spec® HP Acrylic Metal Primer (HP04) or Super Spec HP® Alkyd Metal Primer (P06)
- Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Semi-Gloss Finish (487)

Non-Ferrous Metal (Galvanized & Aluminum): All new metal surfaces must be thoroughly cleaned with Corotech® Oil & Grease Emulsifier (V600) to remove contaminants. New shiny non-ferrous metal surfaces that will be subject to abrasion should be dulled with very fine sandpaper or a synthetic steel wool pad to promote adhesion

- Primer: Ultra Spec® HP Acrylic Metal Primer (HP04)
- Finish: 1 or 2 coats Ultra Spec® SCUFF-X® Interior Semi-Gloss Finish (487)

Wallpapered Surfaces: Remove wallpaper when possible, followed by thoroughly cleaning the surfaces removing all glue residue. Once the surface has fully dried, sand the surfaces to be painted with 150-180 grit paper. Vinyl wallpapered surfaces tightly adhered may be primed with Fresh Start® High-Hiding All Purpose Primer (046) prior to filling the seams and top coating with Ultra Spec® SCUFF-X®

Repaint, All Substrates: Prime bare areas with the primer recommended for the substrate above.

Application

Stir thoroughly before use. Apply one or two coats. For best results, use a Benjamin Moore® Professional custom-blended nylon/polyester brush, Benjamin Moore® Professional roller, or a similar product. This product can also be sprayed.

Conditioning with Benjamin Moore® 518 Extender may be necessary under certain conditions to adjust open time or spray characteristics. The chart below is for general guidance

<table>
<thead>
<tr>
<th>Brush: Nylon / Polyester</th>
<th>Roller: 3/8” premium quality 3/8” roller cover</th>
<th>Spray: Airless (1500-2500 psi) TIP: 0.013-0.017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mild conditions:</td>
<td>Severe conditions:</td>
<td></td>
</tr>
<tr>
<td>Humid (RH&gt;50%) with</td>
<td>Dry (RH&lt;50%), in direct sunlight, or windy</td>
<td>No thinning necessary</td>
</tr>
<tr>
<td>no direct sunlight &amp;</td>
<td>conditions</td>
<td></td>
</tr>
<tr>
<td>with little to no wind</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Add 518 Extender or</td>
<td>Max of 8.5 fl. oz. to a gallon of paint</td>
<td>Never add other paints or solvents.</td>
</tr>
<tr>
<td>water:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Clean Up

Thinning is unnecessary, but if required to obtain desired application properties, a small amount of clean water may be added. Never add other paints or solvents.

Spray up: Use shop and water. Spray equipment should be given a final rinse with mineral spirits to prevent corrosion.

Maintenance: SCUFF-X® needs to fully cure for 2 weeks following application, before applying any cleaning chemicals and liquids. Minimal scuffing and stains can be easily removed by using soap and water. For tougher stains, stronger cleaners may be used with a sponge or rag. Before using a new cleaner for the first time, test its effect on the finish by applying in an inconspicuous area to make sure there’s no damage to the paint film.

USE COMPLETELY OR DISPOSE OF PROPERLY. Dry empty containers may be recycled in a can recycling program. Local disposal requirements vary; consult your sanitation department or state-designated environmental agency on disposal options.

Environmental Health & Safety Information

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Keep container closed when not in use. In case of spillage, absorb with inert material and dispose of in accordance with local regulations. Wash thoroughly after handling. Refer to Safety Data Sheet for additional health and safety information.

WARNING Cancer and Reproductive Harm– www.P65warnings.ca.gov

FIRST AID: In case of eye contact, flush immediately with plenty of water for at least 15 minutes; for skin, wash thoroughly with soap and water. If symptoms persist, seek medical attention. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

IN CASE OF SPILL – Absorb with inert material and dispose of as specified under “Clean Up”.

KEEP OUT OF REACH OF CHILDREN

PROTECT FROM FREEZING

Refer to Safety Data Sheet for additional health and safety information.

Benjamin Moore & Co., 101 Paragon Drive, Montvale, NJ 07645 Tel: (201) 573-9600 Fax: (201) 573-9046 www.benjaminmoore.com MT2 487 US 110818

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SAFETY DATA SHEET

Revision Date: 21-Dec-2018
Revision Number: 4

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ULTRA SPEC SCUFF-X INTERIOR SEMI-GLOSS FINISH BASE 1
Product Code: 4871X
Alternate Product Code: 4871X
Product Class: WATER THINNED PAINT
Color: All
Recommended use: Paint
Restrictions on use: No information available

Manufacturer: Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 1-866-708-9180
www.benjaminmoore.com

Emergency Telephone
CHEMTREC (US): 800-424-9300
CHEMTREC (outside US): (703)-527-3887

2. HAZARDS IDENTIFICATION

Classification
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements
Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Appearance: liquid
Odor: little or no odor

Hazards not otherwise classified (HNOC)
Not applicable

Other information
No information available
3. COMPOSITION INFORMATION ON COMPONENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>20 - 25</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td>7631-86-9</td>
<td>1 - 5</td>
</tr>
<tr>
<td>2-Amino-2-methyl-1-propanol</td>
<td>124-68-5</td>
<td>0.1 - 0.5</td>
</tr>
<tr>
<td>Ammonia</td>
<td>7664-41-7</td>
<td>0.1 - 0.5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General Advice
No hazards which require special first aid measures.

Eye Contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation
Move to fresh air. If symptoms persist, call a physician.

Ingestion
Clean mouth with water and afterwards drink plenty of water. Consult a physician if necessary.

Most Important Symptoms/Effects
None known.

Notes To Physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Protective Equipment And Precautions For Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific Hazards Arising From The Chemical
Closed containers may rupture if exposed to fire or extreme heat.

Sensitivity To Mechanical Impact
No

Sensitivity To Static Discharge
No

Flash Point Data
<table>
<thead>
<tr>
<th>Flash Point (°F)</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point (°C)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Flammability Limits In Air
4871X - ULTRA SPEC SCUFF-X INTERIOR
SEMI-GLOSS FINISH BASE 1

Revision Date: 21-Dec-2018

Lower flammability limit: Not applicable
Upper flammability limit: Not applicable

NFPA Health: 1 Flammability: 0 Instability: 0 Special: Not Applicable

NFPA Legend
0 - Not Hazardous
1 - Slightly
2 - Moderate
3 - High
4 - Severe

The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

Other Information
Prevent further leakage or spillage if safe to do so.

Environmental precautions
See Section 12 for additional Ecological Information.

Methods for Cleaning Up
Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling
Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage
Keep container tightly closed. Keep out of the reach of children.

Incompatible Materials
No information available

8. EXPOSURE CONTROLS/PERSOANAL PROTECTION

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>10 mg/m³ - TWA</td>
<td>15 mg/m³ - TWA</td>
</tr>
<tr>
<td>Kaolin</td>
<td>2 mg/m³ - TWA</td>
<td>15 mg/m³ - TWA</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td>N/E</td>
<td>20 mppcf - TWA</td>
</tr>
<tr>
<td>Ammonia</td>
<td>25 ppm - TWA</td>
<td>50 ppm - TWA</td>
</tr>
<tr>
<td></td>
<td>35 ppm - STEL</td>
<td>35 mg/m³ - TWA</td>
</tr>
</tbody>
</table>

Legend
ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits
OSHA - Occupational Safety & Health Administration Exposure Limits
N/E - Not Established
Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection
Safety glasses with side-shields.

Skin Protection
Protective gloves and impervious clothing.

Respiratory Protection
In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene Measures

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance**: liquid
- **Odor**: little or no odor
- **Odor Threshold**: No information available
- **Density (lbs/gal)**: 10.8 - 10.9
- **Specific Gravity**: 1.29 - 1.31
- **pH**: No information available
- **Viscosity (cps)**: No information available
- **Solubility(ies)**: No information available
- **Water solubility**: No information available
- **Evaporation Rate**: No information available
- **Vapor pressure @20 °C (kPa)**: No information available
- **Vapor density**: No information available
- **Wt. % Solids**: 45 - 55
- **Vol. % Solids**: 35 - 45
- **Wt. % Volatiles**: 45 - 55
- **Vol. % Volatiles**: 55 - 65
- **VOC Regulatory Limit (g/L)**: < 50
- **Boiling Point (°F)**: 212
- **Boiling Point (°C)**: 100
- **Freezing Point (°F)**: 32
- **Freezing Point (°C)**: 0
- **Flash Point (°F)**: Not applicable
- **Flash Point (°C)**: Not applicable
- **Method**: Not applicable
- **Flammability (solid, gas)**: Not applicable
- **Upper flammability limit**: Not applicable
- **Lower flammability limit**: Not applicable
- **Autoignition Temperature (°F)**: No information available
- **Autoignition Temperature (°C)**: No information available
- **Decomposition Temperature (°F)**: No information available
- **Decomposition Temperature (°C)**: No information available
- **Partition coefficient**: No information available

10. STABILITY AND REACTIVITY

- **Reactivity**: Not Applicable
- **Chemical Stability**: Stable under normal conditions.
Conditions to avoid
Prevent from freezing.

Incompatible Materials
No materials to be especially mentioned.

Hazardous Decomposition Products
None under normal use.

Possibility of hazardous reactions
None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Product Information

Information on likely routes of exposure

Principal Routes of Exposure
Eye contact, skin contact and inhalation.

Acute Toxicity

Product Information
No information available

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms
No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Eye contact
May cause slight irritation.

Skin contact
Substance may cause slight skin irritation. Prolonged or repeated contact may dry skin and cause irritation.

Inhalation
May cause irritation of respiratory tract.

Ingestion
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Sensitization
No information available

Neurological Effects
No information available.

Mutagenic Effects
No information available.

Reproductive Effects
No information available.

Developmental Effects
No information available.

Target organ effects
No information available.

STOT - single exposure
No information available.

STOT - repeated exposure
No information available.

Other adverse effects
No information available.

Aspiration Hazard
No information available

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 35619 mg/kg
ATEmix (dermal) 81457 mg/kg
ATEmix (inhalation-dust/mist) 465.4 mg/L

Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>&gt; 10000 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Carcinogenicity
The information below indicates whether each agency has listed any ingredient as a carcinogen:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>2B - Possible Human Carcinogen</td>
<td>Listed</td>
<td></td>
</tr>
</tbody>
</table>

- Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

Legend
IARC - International Agency for Research on Cancer
NTP - National Toxicity Program
OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects
The environmental impact of this product has not been fully investigated.

Product Information

Acute Toxicity to Fish
No information available

Acute Toxicity to Aquatic Invertebrates
No information available

Acute Toxicity to Aquatic Plants
No information available

Persistence / Degradability
No information available.

Bioaccumulation
No information available.

Mobility in Environmental Media
No information available.

Ozone
No information available.

Component Information

Acute Toxicity to Fish
Titanium dioxide
LC50: > 1000 mg/L (Fathead Minnow - 96 hr.)

**Acute Toxicity to Aquatic Invertebrates**
No information available

**Acute Toxicity to Aquatic Plants**
No information available

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method**
Dispose of in accordance with federal, state, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

### 14. TRANSPORT INFORMATION

**DOT**
Not regulated

**ICAO / IATA**
Not regulated

**IMDG / IMO**
Not regulated

### 15. REGULATORY INFORMATION

**International Inventories**

**TSCA: United States**
Yes - All components are listed or exempt.

**DSL: Canada**
No - Not all of the components are listed. One or more component is listed on NDSL.

**Federal Regulations**

**SARA 311/312 hazardous categorization**

- **Acute health hazard**
  - No
- **Chronic Health Hazard**
  - No
- **Fire hazard**
  - No
- **Sudden release of pressure hazard**
  - No
- **Reactive Hazard**
  - No

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

None
Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product contains the following HAPs:

None

US State Regulations

California Proposition 65

⚠️ WARNING: Cancer and Reproductive Harm— www.P65warnings.ca.gov

State Right-to-Know

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Kaolin</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

Legend

X - Listed

16. OTHER INFORMATION

HMIS -

Health: 1  Flammability: 0  Reactivity: 0  PPE: -

HMIS Legend

0 - Minimal Hazard
1 - Slight Hazard
2 - Moderate Hazard
3 - Serious Hazard
4 - Severe Hazard
* - Chronic Hazard
X - Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Prepared By

Product Stewardship Department
Disclaimer
The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.

END OF SAFETY DATA SHEET
WATERBORNE AMINE EPOXY
V440

Features
- Waterborne amine epoxy
- Water cleanup and fast dry
- Easy application with excellent adhesion
- Very good resistance to water and chemicals
- Excellent for use on basement floors
- Suitable for use in USDA Inspected Facilities

Recommended For
Properly prepared and/or primed steel, iron, concrete, non-ferrous metals, wood & drywall. V440 is designed for use in food and beverage processing plants, warehouses, industrial refurbishment, healthcare facilities, schools, commercial and industrial flooring, and other areas where a performance epoxy is needed which concerns that accompany conventional solvent thinned epoxies.

Certifications & Qualifications:
The products supported by this data sheet contain a maximum of 250 gram per liter VOC / VOS (2.09 lbs./gal.) excluding water & exempt solvents.
Suitable for use in USDA Inspected Facilities
CDPH v1 Emission Certified

Recommended For
Tint with Universal Colorants Only

TINT ONLY THE “A” COMPONENT

— Special Colors:
Contact your retailer.

Limitations
- Do not apply if material, substrate or ambient temperature is below 50 °F (10 °C).
- Relative humidity should be below 90%. Do not apply if within 5 degrees of dew point or if rain is expected within 12 hours of application.
- Will amber and chalk if exposed to UV light.

Product Information

Colors — Standard:
Clear (00), White (01), Terra Cotta (22), Sandstone (52), Silver Gray (70), Battleship Gray (75)

— Tint Bases:
Pastel Base (85), Tint Base (86), Deep Base (87), Clear Base (88)
Tint with Universal Colorants Only

— Special Colors:
Contact your retailer.

Certifications & Qualifications:
The products supported by this data sheet contain a maximum of 250 gram per liter VOC / VOS (2.09 lbs./gal.) excluding water & exempt solvents.
Suitable for use in USDA Inspected Facilities
CDPH v1 Emission Certified

Technical Assistance:
Available through your local authorized independent Benjamin Moore retailer. For the location of the retailer nearest you, call 1-866-708-9180 or visit www.benjaminmoore.com

Technical Data:

<table>
<thead>
<tr>
<th>Color</th>
<th>White</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generic Type</td>
<td>Amine Adduct Epoxy</td>
</tr>
<tr>
<td>Pigment Type</td>
<td>Titanium Dioxide</td>
</tr>
<tr>
<td>Volume Solids (mixed as recommended)</td>
<td>43 ± 2.0%</td>
</tr>
</tbody>
</table>

Coverage per Gallon at Recommended Film Thickness
- Wet: 375 - 475 Sq. Ft.
- Dry: 3.4 - 4.3 mils

Film Thickness: 1.5 - 1.9 mils

Coverage is affected by surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint.

Dry Time @ 77 °F (25 °C) @ 50 RH
- To Touch: 2 Hours
- To Recoat: 8 Hours
- Full Cure: 3 - 5 Days

*If top coat is not applied within 72 hours abrade the surface to ensure proper inter-coat adhesion. Maximum abrasion and chemical resistance are achieved at full cure; care should be taken to prevent damage to the coating during the curing process. High humidity and cool temperatures will result in longer dry, recoat and cure times.

Dries By: Chemical Cure
Dry Heat Resistance: 250 °F
Viscosity @ 77 °F (mixed as recommended): 80 – 85 KU
Flash Point: 200° F (TT-P-141, Method 4293)
Gloss: Gloss (85+ @ 60°)
Surface Temperature at application: 50 °F
Surface must be dry and at least 5° above the dew point

Thin With
<table>
<thead>
<tr>
<th>Do Not Thin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clean Up Thinner: Warm Water</td>
</tr>
<tr>
<td>Mixed Ratio (by volume): 3 : 1</td>
</tr>
<tr>
<td>Induction time @ 77 °F (25 °C): 30 Minutes</td>
</tr>
<tr>
<td>Pot Life @ 77 °F (25 °C): 3 Hours</td>
</tr>
<tr>
<td>Weight Per Gallon (mixed as recommended): 11.1 lbs.</td>
</tr>
<tr>
<td>Storage Temperature: 45 °F</td>
</tr>
<tr>
<td>- Max.: 95 °F</td>
</tr>
</tbody>
</table>

Volatile Organic Compounds (VOC)
- 206 Grams / Liter
- 1.72 LBS / Gallon

◊ Reported values are for White. Contact retailer for values of other bases or colors.
Surface Preparation

All surfaces must be sound, dry, clean and free of oil, grease, dirt, mildew, mill scale, form release agents, curing compounds, loose and flaking paint and other surface contaminants.

NEW SURFACES: Concrete and Masonry: All masonry surfaces must be allowed to cure a minimum of 30 days before painting. Acid etch or abrasive blast all slick, glazed concrete or concrete with latteage. For acid etching, follow all manufacturer’s directions and safety instructions. Rinse thoroughly and allow to dry. Prime concrete with one coat of V155 100% Solid Epoxy Pre-Primer or V156 Moisture Tolerant Fast Set Epoxy Sealer. Bare concrete may require two coats of V440 to obtain desired finish.

STEEL AND FERROUS METALS: Use the type of Corotech® V110 Acrylic Metal Primer or V175 Waterborne Bonding Primer is recommended. All primers provide maximum performance over near white metal blasted surfaces (SSPCSP 10). There are however, situations and cost considerations that may prevent this type of surface preparation from being done. Corotech® Industrial Coatings have been designed to provide protection over less than ideal surfaces. The recommended standard is a commercial blast (SSPC-SP 6). The steel profile after the blast should be 1-2 mils and be jagged in nature. Surfaces must be free of grit dust. The coating should be applied as soon as possible after the blast in order to prevent flash rusting or surface contamination. Hand tool cleaning (SSPC-SP 2) or power tool cleaning (SSPC-SP 3) can be used if blasting is not possible. In areas where adequate surface preparation is not possible the use of V155 100% Solid Epoxy Pre-Primer is recommended. In highly corrosive areas where additional rust inhibitive qualities are required, prime with one coat of V170 Organic Zinc-Rich Primer prior to applying epoxy coatings.

GALVANIZED AND NON-FERROUS METALS: Solvent clean all surfaces (SSPC-SP-1). Apply one coat of Corotech® V110 Acrylic Metal Primer or V175 Waterborne Bonding Primer.

DRYWALL: Insure drywall is dust & chalk free. Prime with an acrylic drywall primer.

PREVIOUSLY PAINTED SURFACES: Can be applied over most existing industrial finishes in good condition.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Application

Mixing Instructions:
This is a two component kit and is pre-proportioned for error free mixing. DO NOT vary from these instructions. Mix “A” & “B” separately

1. Carefully empty the entire contents of V 440-90 activator into the can of V440-Part A component resin; scrape the sides of the can of V110-2100 psi.
2. Using a jiffy mixer at low speed, blend this mixture for three to five minutes until completely blended. Keep the mixing blade turning at a slow speed to minimize whipping air into material. Scrape sides of can during the mixing process.
3. Care must be taken to assure both components are completely mixed in order to avoid partially cured spots in the coating.
4. Allow to induct for 30 minutes.

It is extremely important to remember that Epoxy Coatings have a limited pot life; therefore, it is wise to make sure sufficient manpower and correct application tools are in order prior to starting the mixing sequence. Estimated pot life is: 2 to 4 hours @ 77 °F (25 °C)

Application:
Airless Spray (Preferred Method): Tip range between .015 and .019. Total fluid output pressure at tip should not be less than 2100 psi.
Air Spray (Pressure Pot): DeVilbiss MBC or JGA gun, with 704 or 765 air cap and Fluid Tip E.
Brush: Synthetic Bristle only. Roller: Industrial Cover with Phenolic core. 1/2” – 1/2” nap.

NOTE: Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with warm water. No reduction is necessary.

Drying Time: Dries tack free in 2 hours. Can be recoated in 8 hours. This dry time is based on 77 °F and 50% relative humidity. Lower temperature and/or higher humidity will result in longer dry times.

NOTE: If more than 72 hours (@ 77 °F) elapses between coats, sand the film to provide sufficient profile.

Additional Notes: All high gloss surfaces can be slippery. Where non-skid characteristics are desired, hand broadcast an appropriate anti-slip aggregate into the wet film then back-roll to encapsulate. Benjamin Moore’s Corotech® Anti-Slip Aggregate V630 works well for non-clear coats. All epoxy coatings will chalk and fade if applied on exterior surfaces subjected to direct sunlight. All epoxies tend to yellow. Where color and gloss retention is important top-coating will be necessary. Will stain with prolonged exposure to some solvents and chemicals or in kennels if exposed to animal waste. This staining will not affect the durability or protective qualities of the coating. Will not cure at surface temperatures below 50 °F.

Waterborne Amine Epoxy V440

TEST DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexibility</td>
<td>ASTM D1737</td>
<td>Pass 1/8&quot; Mandrel</td>
</tr>
<tr>
<td>Sag Resistance</td>
<td>Passes 9+ mils</td>
<td></td>
</tr>
<tr>
<td>Steam Resistance</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Dry Heat Resistance</td>
<td>250 °F</td>
<td></td>
</tr>
<tr>
<td>Wet Heat Resistance</td>
<td>180 °F</td>
<td></td>
</tr>
<tr>
<td>Adhesion (ASTM D3359)</td>
<td>Pass 5B</td>
<td></td>
</tr>
<tr>
<td>Pencil Hardness (1 week cure)</td>
<td>HB</td>
<td></td>
</tr>
<tr>
<td>Direct Impact / Reverse Impact</td>
<td>160 in/lbs</td>
<td></td>
</tr>
<tr>
<td>Accelerated Weathering (ASTM G35)</td>
<td>500 hours, no change</td>
<td></td>
</tr>
<tr>
<td>Abrasion Resistance (ASTM D4060) CS-10 Wheel, 1000g load</td>
<td>90 mg loss after 1000 cycles</td>
<td></td>
</tr>
<tr>
<td>Humidity (ASTM D4585) (2 Coats over V150 – 1000 Hours)</td>
<td>Face Corrosion: None</td>
<td></td>
</tr>
<tr>
<td>Salt Spray (ASTM B117) (2 Coats over V110 (1000 Hours)</td>
<td>Face Corrosion: None</td>
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</tr>
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</table>

CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)

<table>
<thead>
<tr>
<th>Substance</th>
<th>Rating</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresh Water</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Salt Water</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Waste Water</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Acids</td>
<td>Good-Excellent</td>
<td></td>
</tr>
<tr>
<td>Alkalies</td>
<td>Good</td>
<td></td>
</tr>
<tr>
<td>Solvents</td>
<td>Excellent</td>
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<tr>
<td>Fuel</td>
<td>Good</td>
<td></td>
</tr>
<tr>
<td>Acidic Salt Solutions</td>
<td>Excellent</td>
<td></td>
</tr>
<tr>
<td>Alkaline Salt Solutions</td>
<td>Good</td>
<td></td>
</tr>
<tr>
<td>Neutral Salt Solutions</td>
<td>Excellent</td>
<td></td>
</tr>
</tbody>
</table>

SYSTEMS RECOMMENDATIONS

<table>
<thead>
<tr>
<th>Category</th>
<th>Primer/Coat</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primers</td>
<td>V110 Line, V150 Line, V155-00 or V160 Line</td>
<td>Ferrous Metal (Blasted)</td>
</tr>
<tr>
<td>Primers</td>
<td>V155-00 or V160 Line</td>
<td>Ferrous Metal (Marginally Prepared)</td>
</tr>
<tr>
<td>Primers</td>
<td>V110 Line or V175-00</td>
<td>Non-Ferrous Metal</td>
</tr>
<tr>
<td>Concrete</td>
<td>Use Direct or use V110 Line, V114-01, or V155-00, V160 Line, V163-01, or V400-00 Clear</td>
<td>Concrete</td>
</tr>
<tr>
<td>Drywall</td>
<td>Use a good quality acrylic drywall primer</td>
<td>Drywall</td>
</tr>
<tr>
<td>Aged Coatings</td>
<td>Use Direct or use V110 Line</td>
<td>Aged Coatings</td>
</tr>
</tbody>
</table>

COMPATIBLE INTERMEDIATES

<table>
<thead>
<tr>
<th>Category</th>
<th>Primer/Coat</th>
</tr>
</thead>
<tbody>
<tr>
<td>V160 Line, V163-01</td>
<td></td>
</tr>
</tbody>
</table>
Clean Up
Clean up with warm water.

Environmental Health & Safety Information

Danger!
Harmful if swallowed
Causes skin irritation
Causes serious eye damage
May cause cancer
Suspected of damaging fertility or the unborn child
Causes damage to organs
Causes damage to organs through prolonged or repeated exposure

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/ fume/ mist/ vapors/spray.

Response: If exposed call a POISON CENTER or physician. If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. If on skin wash with plenty of soap and water. If skin irritation occurs get medical attention. Take off contaminated clothing and wash before reuse. If swallowed call a POISON CENTER or physician if you feel unwell. Rinse mouth.

Storage: Store locked up.

Disposal: Dispose of contents/container to an approved waste disposal plant.

IMPORTANT: Designed to be mixed with other components. Mixture will have hazards of all components. Before opening packages, read all warning labels. Follow all precautions.

CAUTION: All floor coatings may become slippery when wet. Where non-skid characteristics are desired, a small amount of clean sand may be added. Stir often during application.

⚠️ WARNING Cancer and Reproductive Harm–
www.P65warnings.ca.gov

This document represents hazards of the product referenced above. Refer to the individual Safety Data Sheet for hazards of the specific product you will be using.

KEEP OUT OF REACH OF CHILDREN
KEEP FROM FREEZING
FOR PROFESSIONAL USE ONLY

Refer to Safety Data Sheet for additional health and safety information.
1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: WATERBORNE AMINE EPOXY PASTEL BASE
Product Code: V440-85
Alternate Product Code: V44085
Product Class: WATERBORNE EPOXY
Color: All
Recommended use: Industrial paint
Restrictions on use: No information available

Manufacturer: Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 1-866-708-9180
corotechcoatings.com

Emergency Telephone
CHEMTREC (US): 800-424-9300
CHEMTREC (outside US): (703)-527-3887

2. HAZARDS IDENTIFICATION

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral: Category 4
Skin corrosion/irritation: Category 2
Serious eye damage/eye irritation: Category 1
Carcinogenicity: Category 1A
Reproductive toxicity: Category 2
Specific target organ toxicity (single exposure): Category 1
Specific target organ toxicity (repeated exposure): Category 1

Label elements
Danger

Hazard statements
Harmful if swallowed
Causes skin irritation
Causes serious eye damage
May cause cancer
Suspected of damaging fertility or the unborn child
Causes damage to organs
Causes damage to organs through prolonged or repeated exposure

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response
IF exposed: Call a POISON CENTER or doctor/physician
Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician
Skin
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Not applicable

Other information
No information available

Other hazards
IMPORTANT: Designed to be mixed with other components. Mixture will have hazards of all components. Before opening packages, read all warning labels. Follow all precautions.

CAUTION: All floor coatings may become slippery when wet. Where non-skid characteristics are desired, a small
amount of clean sand may be added. Stir often during application.

### 3. COMPOSITION INFORMATION ON COMPONENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>30</td>
</tr>
<tr>
<td>Aliphatic polyamine</td>
<td>-</td>
<td>20</td>
</tr>
<tr>
<td>Silica, crystalline</td>
<td>14808-60-7</td>
<td>15</td>
</tr>
<tr>
<td>2-Propanol, octyl ether</td>
<td>2807-30-9</td>
<td>5</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>5</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td>7631-86-9</td>
<td>5</td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>34590-94-8</td>
<td>5</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-refined light paraffinic</td>
<td>64741-89-5</td>
<td>0.5</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

#### General Advice
Immediately call a POISON CENTER or doctor/physician.

#### Eye Contact
Immediate medical attention is required. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.

#### Skin Contact
Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash clothing before reuse.

#### Inhalation
Call a physician or Poison Control Center immediately. Move to fresh air. If not breathing, give artificial respiration.

#### Ingestion
Never give anything by mouth to an unconscious person. Immediate medical attention is required. Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice.

#### Protection Of First-Aiders
Use personal protective equipment.

#### Most Important Symptoms/Effects
None known.

#### Notes To Physician
Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Protective Equipment And Precautions For Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### Specific Hazards Arising From The Chemical
Closed containers may rupture if exposed to fire or extreme heat.
Sensitivity To Mechanical Impact  No
Sensitivity To Static Discharge  No

Flash Point Data
  Flash Point (°F)  Not applicable
  Flash Point (°C)  Not applicable
  Method  Not applicable

Flammability Limits In Air
  Lower flammability limit:  Not applicable
  Upper flammability limit:  Not applicable

NFPA  Health: 1  Flammability: 0  Instability: 0  Special: Not Applicable

NFPA Legend
0 - Not Hazardous
1 - Slightly
2 - Moderate
3 - High
4 - Severe

The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions  Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.
Other Information  Prevent further leakage or spillage if safe to do so.
Environmental precautions  See Section 12 for additional Ecological Information.
Methods for Cleaning Up  Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling  Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment.
Storage  Keep container tightly closed. Keep out of the reach of children.
Incompatible Materials  No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
</table>

Page 4 / 11
Titanium dioxide  &  10 mg/m$^3$ - TWA &  15 mg/m$^3$ - TWA \\
Silica, crystalline &  0.025 mg/m$^3$ - TWA & - \\
2-Butoxyethanol &  20 ppm - TWA &  50 ppm - TWA \\
 &  &  240 mg/m$^3$ - TWA prevent or reduce skin absorption \\
Silica, amorphous &  N/E &  20 mppcf - TWA \\
Dipropylene glycol monomethyl ether &  100 ppm - TWA &  100 ppm - TWA \\
 &  150 ppm - STEL \\
 &  Skin &  600 mg/m$^3$ - TWA prevent or reduce skin absorption \\

Legend
ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits
OSHA - Occupational Safety & Health Administration Exposure Limits
N/E - Not Established

Engineering Measures
Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection
Safety glasses with side-shields.

Skin Protection
Protective gloves and impervious clothing.

Respiratory Protection
In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene Measures
Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance     liquid
Odor           little or no odor
Odor Threshold No information available
Density (lbs/gal)  11.9 - 12.0
Specific Gravity  1.42 - 1.44
pH              No information available
Viscosity (cps)  No information available
Solubility(ies)  No information available
Water solubility No information available
Evaporation Rate No information available
Vapor pressure @20 °C (kPa) No information available
Vapor density  No information available
Wt. % Solids    55 - 65
Vol. % Solids   35 - 45
Wt. % Volatiles 35 - 45
Vol. % Volatiles 55 - 65
VOC Regulatory Limit (g/L) <250
Boiling Point (°F) 212
Boiling Point (°C) 100
Freezing Point (°F) 32
Freezing Point (°C) 0
Flash Point (°F) Not applicable
Flash Point (°C) Not applicable
Method Not applicable
Flammability (solid, gas) Not applicable
10. STABILITY AND REACTIVITY

Reactivity
Not Applicable

Chemical Stability
Stable under normal conditions.

Conditions to avoid
Prevent from freezing.

Incompatible Materials
No materials to be especially mentioned.

Hazardous Decomposition Products
None under normal use.

Possibility of hazardous reactions
None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Product Information

Information on likely routes of exposure

Principal Routes of Exposure
Eye contact, skin contact and inhalation.

Acute Toxicity

Product Information
No information available

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms
No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Eye contact
Causes eye irritation. Risk of serious damage to eyes. May cause burns. Severely irritating to eyes.

Skin contact
Irritating to skin. Prolonged skin contact may cause skin irritation and/or dermatitis. May cause burns.

Inhalation
Harmful by inhalation. Causes respiratory tract irritation. Vapours may be irritating to eyes, nose, throat, and lungs. May cause additional affects as listed under "Ingestion".

Ingestion
Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Can burn mouth, throat, and stomach.

Sensitization
No information available

Neurological Effects
No information available.

Mutagenic Effects
No information available.

Reproductive Effects
Possible risk of impaired fertility. Possible risk of harm to the unborn child.
Developmental Effects
No information available.

Target organ effects
No information available.

STOT - single exposure
May cause disorder and damage to the Respiratory system. Digestive System.

STOT - repeated exposure
Causes damage to organs through prolonged or repeated exposure if inhaled.
Causes damage to organs through prolonged or repeated exposure if swallowed.
kidney.

Other adverse effects
No information available.

Aspiration Hazard
No information available.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

<table>
<thead>
<tr>
<th>ATEmix (oral)</th>
<th>1468 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATEmix (dermal)</td>
<td>14003 mg/kg</td>
</tr>
<tr>
<td>ATEmix (inhalation-dust/mist)</td>
<td>8.5 mg/L</td>
</tr>
<tr>
<td>ATEmix (inhalation-vapor)</td>
<td>424 mg/L</td>
</tr>
</tbody>
</table>

Component Information

Titanium dioxide
LD50 Oral: > 10000 mg/kg (Rat)
Silica, crystalline
LD50 Oral: 500 mg/kg (Rat)
2-Propanoylethanol
LD50 Oral: 3089-3090 mg/kg (Rat)
LD50 Dermal: 960 µL/kg (Rabbit)
LC50 Inhalation (Vapor): 9060 mg/m³ (Rat)
2-Butoxyethanol
LD50 Oral: 470 mg/kg (Rat)
LD50 Dermal: 220 mg/kg (Rabbit)
LC50 Inhalation (Vapor): 450 ppm (Rat, 4 hr.)
Silica, amorphous
LD50 Oral: > 5000 mg/kg (Rat)
LD50 Dermal: 2,000 mg/kg (Rabbit)
LC50 Inhalation (Dust): > 2 mg/L
Dipropylene glycol monomethyl ether
LD50 Oral: 5400 µL/kg (Rat)
LD50 Dermal: 10 mL/kg (Rabbit)
Distillates (petroleum), solvent-refined light paraffinic
LD50 Oral: > 15 g/kg (Rat)
LD50 Dermal: > 5 g/kg (Rabbit)

Carcinogenicity

The information below indicates whether each agency has listed any ingredient as a carcinogen:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>2B - Possible Human Carcinogen</td>
<td></td>
<td>Listed</td>
</tr>
<tr>
<td>Silica, crystalline</td>
<td>1 - Human Carcinogen</td>
<td>Known Human Carcinogen</td>
<td>Listed</td>
</tr>
</tbody>
</table>

* Crystalline Silica has been determined to be carcinogenic to humans by IARC (1) when in respirable form. Risk of cancer depends on duration and level of inhalation exposure to spray mist or dust from sanding the dried paint.
• Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

Legend
IARC - International Agency for Research on Cancer
NTP - National Toxicity Program
OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects
The environmental impact of this product has not been fully investigated.

Product Information

**Acute Toxicity to Fish**
No information available

**Acute Toxicity to Aquatic Invertebrates**
No information available

**Acute Toxicity to Aquatic Plants**
No information available

**Persistence / Degradability**
No information available.

**Bioaccumulation**
No information available.

**Mobility in Environmental Media**
No information available.

**Ozone**
No information available

Component Information

**Acute Toxicity to Fish**
Titanium dioxide
LC50: > 1000 mg/L (Fathead Minnow - 96 hr.)
2-Butoxyethanol
LC50: 1490 mg/L (Bluegill sunfish - 96 hr.)

**Acute Toxicity to Aquatic Invertebrates**
No information available

**Acute Toxicity to Aquatic Plants**
No information available
13. DISPOSAL CONSIDERATIONS

Waste Disposal Method
Dispense of in accordance with federal, state, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

14. TRANSPORT INFORMATION

DOT
Not regulated

ICAO / IATA
Not regulated

IMDG / IMO
Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA: United States
Yes - All components are listed or exempt.

DSL: Canada
Yes - All components are listed or exempt.

Federal Regulations

SARA 311/312 hazardous categorization

- Acute health hazard: Yes
- Chronic Health Hazard: Yes
- Fire hazard: No
- Sudden release of pressure hazard: No
- Reactive Hazard: No

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>CERCLA/SARA 313 (de minimis concentration)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propoxyethanol</td>
<td>2807-30-9</td>
<td>5</td>
<td>1.0</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>5</td>
<td>1.0</td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>34590-94-8</td>
<td>5</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product contains the following HAPs:

None

US State Regulations
California Proposition 65

⚠️ WARNING: Cancer and Reproductive Harm— www.P65warnings.ca.gov

State Right-to-Know

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Silica, crystalline</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>2-Propanol</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Silica, amorphous</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

Legend

X - Listed

16. OTHER INFORMATION

HMIS - Health: 1*  Flammability: 0  Reactivity: 0  PPE: -

HMIS Legend

0 - Minimal Hazard
1 - Slight Hazard
2 - Moderate Hazard
3 - Serious Hazard
4 - Severe Hazard
* - Chronic Hazard

X - Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Prepared By: Product Stewardship Department
Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
800-225-5554

Revision Date: 20-Sep-2018
Disclaimer
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END OF SAFETY DATA SHEET