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SECTION 07 19 23

SILOXANE WATER REPELLENTS

GENERAL NOTES TO SPECIFIER:

THIS SPECIFICATION SECTION HAS BEEN PREPARED TO ASSIST DESIGN PROFESSIONALS IN THE PREPARATION OF PROJECT OR OFFICE MASTER SPECIFICATIONS. IT FOLLOWS GUIDELINES ESTABLISHED BY THE CONSTRUCTION SPECIFICATIONS INSTITUTE (CSI), AND THEREFORE MAY BE USED WITH MOST MASTER SPECIFICATION SYSTEMS WITH MINOR EDITING.

EDIT CAREFULLY TO SUIT PROJECT REQUIREMENTS. MODIFY AS NECESSARY AND DELETE ITEMS THAT ARE NOT APPLICABLE. VERIFY THAT REFERENCED SECTION NUMBERS AND TITLES ARE CORRECT. (NUMBERS AND TITLES REFERENCED ARE BASED ON *MASTERFORMAT*, 2004 EDITION).

THIS SECTION ASSUMES THE PROJECT MANUAL WILL CONTAIN COMPLETE DIVISION 1 DOCUMENTS INCLUDING SECTIONS 01 25 13-PRODUCT SUBSTITUTION PROCEDURES, 01 33 00-SUBMITTAL PROCEDURES, 01 62 00-PRODUCT OPTIONS, 01 66 00-PRODUCT STORAGE AND HANDLING REQUIREMENTS, 01 74 00-CLEANING AND WASTE MANAGEMENT, 01 77 00-CLOSEOUT PROCEDURES, AND 01 78 00-CLOSEOUT SUBMITTALS. CLOSE COORDINATION WITH DIVISION 1 SECTIONS IS REQUIRED. IF THE PROJECT MANUAL DOES NOT CONTAIN THESE SECTIONS, ADDITIONAL INFORMATION SHOULD BE INCLUDED UNDER THE APPROPRIATE ARTICLES.

THIS IS A CLOSED PROPRIETARY SPECIFICATION.

NOTES TO THE SPECIFIER ARE CONTAINED IN BOXES AND SHOULD BE DELETED FROM FINAL COPY.

ITEMS REQUIRING ADDITIONAL INFORMATION ARE UNDERLINED BLANK SPACES, E.G. _____ .

BOLD FACE TEXT IDENTIFIES OPTIONAL PARAGRAPHS AND FEATURES THAT MAY BE INCLUDED OR DELETED DEPENDING ON PROJECT REQUIREMENTS. CONVERT THE BOLD FACE TEXT TO REGULAR TEXT WHEN INCLUDING THESE PARAGRAPHS OR FEATURES. WHEN DELETING A PARAGRAPH, BE CERTAIN THAT ALL SUBPARAGRAPHS ARE ALSO DELETED.

REVISE FOOTER TO SUIT PROJECT/OFFICE REQUIREMENTS.

ELECTRONIC VERSIONS OF THIS SPECIFICATION UTILIZE AUTOMATIC PARAGRAPH NUMBERING.

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes: CraftShield Manufactured Stone Veneer Protective Treatment (Siloxane-based Manufactured Stone Veneer protective treatment.)
- B. Related Sections:
 - 1. **04 70 00-Manufactured Masonry Veneer.**

INCLUDE APPROPRIATE LANGUAGE BELOW IF PRODUCTS SPECIFIED IN THIS SECTION ARE TO BE BID AS ALTERNATES. OTHERWISE DELETE FOLLOWING PARAGRAPH.

C. Alternates:

1. Reference Section 01 23 00–Alternates.

1.02 REFERENCES

- A. American Society for Testing and Materials (ASTM):
1. ASTM E 96 – Water Vapor Transmission.
 2. ASTM E 97 – Reduction of Water Absorption.
 3. ASTM E 514 – Standard Test Method for Water Penetration and Leakage through Masonry.

1.03 SUBMITTALS

- A. Reference Section 01 33 00–Submittal Procedures; submit following items:
1. Product Data.
 2. Material Safety Data Sheet (MSDS)
 3. Quality Assurance/Control Submittals:
 - a. Protective Treatment manufacturer’s installation instructions.
- B. Closeout Submittals: Reference Section 01 78 00–Closeout Submittals; submit following items:
1. Maintenance Instructions.
 2. Warranty.

1.04 QUALITY ASSURANCE

- A. Qualifications:
1. Manufacturer Qualifications: Licensee of Boral®
 2. Installer Qualifications: Experienced installer familiar with installation procedures for various types of sealers.
- B. Test Area: Test a minimum area of 16 square feet on each type of masonry using the application instructions in section 3.03 Installation. Treated surfaces dry to touch in 1 hour. Always test to verify compatibility between sealer and other proposed surface treatments for suitability and results.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Reference Section 01 66 00–Product Storage and Handling Requirements.
- B. Store in a cool, dry place. Keep from freezing.
- C. Shelf life is 1 year in tightly sealed, unopened container.

1.06 PROJECT/SITE CONDITIONS

- A. Environmental Requirements: Air temperatures must be between 40 degrees F and 95 degrees F (4 degrees to 35 degrees C) during application and for eight hours after application. If freezing conditions exist before applications, let masonry thaw before application. When air temperature is 40 degrees F (4.5 degrees C) or below, consult local building code for Cold-Weather Construction requirements.

1.07 WARRANTY

- A. Warranty: Manufacturer's standard warranty coverage against defects in materials when installed in accordance with manufacturer's installation instructions. Standard warranty also covers a shelf life of 1 year in tightly sealed, unopened container.

PART 2 - PRODUCTS

2.01 MANUFACTURER

- | | |
|--|---|
| A. Boral
1370 Grand Ave., Bldg. B
San Marcos, CA 92069 | Tel: (800) 925-1491
Fax: (760) 736-8890
Website: www.eldoradostone.com |
|--|---|

INSERT NAME, ADDRESS AND CONTACT INFORMATION OF LOCAL DISTRIBUTOR BELOW.
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- 1. Manufacturer's Distributor:

2.02 MATERIALS

- A. Product Description: CraftShield Manufactured Stone Veneer Protective Treatment is a pre-diluted, penetrating, breathable, and water-based siloxane water repellent. This product is designed for use on concrete and most masonry surfaces, including Boral stone and Boral brick veneers. The product chemically bonds to the masonry surface to help resist staining, spalling, cracking and other damage related to water intrusion. Suitable for both interior and exterior applications, this product is low odor and alkaline-stable.

- B. Product Technical Information:
 - 1. Form: White milky liquid
 - 2. Specific Gravity: 0.996
 - 3. pH: 4 – 5
 - 4. Weight per gallon: 8.29 pounds
 - 5. Active content: 7%
 - 6. Total solids: 4% ASTM D 5095
 - 7. Flash point: >212 degrees F (>100 degrees C) ASTM D 3278
 - 8. Freeze point: 32 degrees F (0 degrees C)
 - 9. Shelf life: 1 year in tightly sealed, unopened container
 - 10. VOC Content: Complies with all known national, state, and district AIM VOC regulations

- C. Product Limitations
 - 1. Product will not keep water out of cracks, defects or open joints.
 - 2. Not for below-grade applications.
 - 3. Not suitable for application to synthetic resin paints, gypsum, or other non-masonry surfaces. The product may interfere with adhesion of paints and coatings. Always test for compatibility.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates upon which work will be installed.
- B. Coordinate with responsible entity to perform corrective work on unsatisfactory substrates.
- C. Thoroughly read section 3.02 Preparation and section 3.03 Installation prior to beginning application.
- D. Commencement of work by installer is acceptance of substrate.

3.02 PREPARATION

- A. Do not dilute or alter the product. Product is pre-diluted to the proper concentration.
- B. Protection: Protect adjacent people, vehicles, property, plants, windows, and all non-masonry surfaces from product, splash, residue, fumes, and wind drift. Protect and divert foot and auto traffic.
- C. Surface Preparation: Clean newly constructed and repointed surfaces before application in accordance with masonry veneer manufacturer's instructions. The surface should be allowed to dry such that the surface is visibly dry.

3.03 INSTALLATION

- A. Vertical Application Instructions:
 - 1. Spray: Apply with low-pressure sprayer (<50psi). Fan tips are recommended. Saturate from the bottom up, creating a 4" to 8" rundown below the contact point. Let the first application penetrate for 5 to 10 minutes. Saturate again; however, less will be needed for the second coat.
 - 2. Brush or Roller: Saturate uniformly. Let the first application penetrate for 5 to 10 minutes. Brush out runs and drips that do not penetrate.
- B. Dense Surface Application Instructions: Apply a single coat. Use enough to completely wet surface without creating drips, puddles, or rundowns. Do not over-apply. Test for application rate prior to application.
- C. Horizontal Application Instructions: Saturate in a single application. Use enough to keep the surface wet for 2 to 3 minutes before penetration. Broom out puddles until puddles soak in to surface.

3.04 POST APPLICATION AND CLEANING

- A. Reference Section 01 74 00–Cleaning and Waste Management.
- B. Remove protective coverings from adjacent work.
- C. Protect surfaces from rainfall for 6 hours following application. Sealer gains water-repellency properties after 72 hours.

- D. Post-application Cleanup: Wash all equipment, tools, and overspray with soap and warm water. Rinse well with clean water. Window glass may be cleaned with soap and water 6 hours after application.
- E. Future cleanings should be done with a soft bristle brush and soap and water. Rinse immediately with clean water.

END OF SECTION¹

¹ Comments or suggestions for improvement should be addressed to Boral via the contact information on page one. Revised:

April 4, 2011