

Note to Specifiers: This specification for **Surebond SB-3330** Protect-A-Wall has been provided in CSI format. Contact **SEK-Surebond, Inc. at (800) 932-3343** for other formats you may require.

This Breathable Wall Protective Sealer section is intended to incorporate the specific elements that make up a good quality product and calls out some installation methods that help produce a good quality installation. The format should be modified to fit within the larger set of specifications used on your project. The specifications for breathable wall protective sealer are often not freestanding, but are included into the Materials, Submittal, Installation or other portions of the sections on Unit Paving.

SECTION 1 - BREATHABLE WALL PROTECTIVE SEALER

PART 1 - GENERAL

1.01 SUMMARY

- A. **Section Includes:** Furnishing of all labor, materials, services and equipment necessary for the supply and installation of breathable wall protective sealer to concrete structures as indicated on drawings and as specified herein.
- B. **Related Sections:**
1. Section 02783 - Interlocking Concrete Unit Paving
 2. Section 02780 - Clay Unit Pavers
 3. Section 03100 - Concrete Work

1.02 REFERENCES

- A. **Applicable Standards:** The following standards are referenced herein.
1. American Society for Testing and Materials (ASTM)

1.03 SYSTEM DESCRIPTION

- A. **Breathable Wall Protective Sealer** - Clear, epoxy modified, penetrating, breathable, masonry wall sealer

1.04 SYSTEM PERFORMANCE REQUIREMENTS

- A. **Testing Requirements:** Pavement sealer shall be tested in accordance with the following standards and conditions, and the testing results shall meet or exceed the performance requirements as specified herein.
- B. **Independent Laboratory:** Testing shall be performed by an independent laboratory meeting the requirements of ASTM E 329-95 and certified by the United States Bureau of Standards. Testing laboratory shall obtain all concrete samples and waterproofing product samples.
- C. **Permeability:** The sealer shall have a zero water penetration rate as defined by ASTM E 514 Item 9.1.4.
- D. **Water Vapor Transmission:** The sealer shall have a minimum water vapor transmission rate of 60 grams/meter²/day at an average dry film thickness of 3.5 to 4.0 mils and a relative humidity of 40% when tested as per ASTM D 1653.

1.05 SUBMITTALS

- A. **General:** Submit listed submittals in accordance with conditions of the Contract and with Division 1 Submittal Procedures Section.
- B. **Product Data:** Submit product information, including manufacturer's specifications, installation instructions, manufacture's recommendations, and manufacturer's certification or other data substantiating the product complies with requirements of these Contract Documents.
- C. **Manufacturer's Certification:** Provide certificates signed by manufacturer or manufacturer's representative certifying that the materials to be installed comply in all respects with the requirements of this specification.
- D. **Installer:** The installer shall provide a list of projects, including references with contact information, demonstrating at least 5 years of experience in the application of the sealer or similar materials.

1.06 QUALITY ASSURANCE

- A. **Manufacturer:** The manufacturer shall have no less than 10 years experience in manufacturing the sealer or similar products.
- B. **Installer:** The installer shall demonstrate to the satisfaction of the Architect/Engineer an acceptable level of experience in the installation of the sealer or similar products.
- C. **Pre-Installation Conference:** Prior to installation of sealer, conduct meeting with the installer, general contractor and Architect/Engineer, owner's representative, and waterproofing manufacturer's representative to verify and review the following:
 - 1. Project requirements for materials and installation as set out in Contract Document.
 - 2. Manufacturer's product data including application instructions.
 - 3. General site conditions, schedule, coordination with other activities, line and grade of the work, substrate conditions, procedures for substrate preparation and cleanup.

1.07 DELIVERY, STORAGE AND HANDLING

- A. **Delivery:** Deliver packaged materials to project site in original undamaged containers, with manufacturer's labels and seals intact.

1.08 MATERIALS

- A. The material shall be an epoxy-modified penetrating concrete sealer, capable of penetrating and sealing the surface of the wall without causing a high gloss effect.
- B. The material, as delivered, will be liquid at typical ambient temperatures It shall have a VOC of less than 100 grams per liter.
- C. The product shall be manufactured as a brick, masonry, stucco and manufactured wall sealer and labeled as such.
- D. The material shall comply with the criteria in 1.04 of this section.
- E. Material shall be water based and shall not contain solvents.

- F. Materials shall be an IMMEDIATE application sealer
- G. Material shall be Breathable as to allow Efflorescence to escape.
- H. Material shall be formulated with Anti Fungal agents to help inhibit the growth of mold, moss and fungi on vertical surfaces.

1.09 PROJECT CONDITIONS

- A. Comply with manufacturer's product data regarding condition of substrate to receive penetrating sealer, weather conditions before and during installation, and protection of the installed materials.
- B. The surface shall be clean and free from any staining, liquids, dust, loose material or any other substance interfering with the penetration of the liquid material into the surface of the wall.
- C. Any blistering, peeling or flaking paint, loose and damaged stucco, as well as damaged mortar between masonry and stone units must be removed.
- D. Existing mildew, fungus or algae shall also be removed prior to sealer application.
- E. The surface of the wall, to its full depth, shall be dry. Additional heat may be necessary to facilitate sufficient drying of the wall prior to sealer application.
- F. Work shall not commence if rain or other precipitation is predicted in the area for a period of 24 hours before, during and after the application.

1.10 EXECUTION

- A. The sealer shall be applied as per the manufacture's data sheet and these Construction Documents.
- B. The manufacture's recommended coverage rate shall be followed.
- C. Prepare a test area of 50SF for review of and approval by the Architect/Engineer. The test area shall include at least one example of every type of wall or material to be sealed. Do not proceed with the balance of the work until approval, in writing, is received. Upon approval the test area may be incorporated into the work.

- D. The surface to receive the sealer must be clean, dry and free of loose materials or chemicals (including curing compounds).
- E. Do not apply sealer if the temperature of the surface is below 45°F or above 95°F, or if the air temperature is at or below 50°F and falling or at or above 90°F and rising. Do not apply the sealer if rain or other precipitation is predicted in the area for a period of 24 hours before, during and after the application.
- F. The wall protective sealer shall be applied evenly using a low-pressure system with a nozzle pressure not exceeding 40 psi. Manual or electro-mechanical systems are acceptable.
- G. Sealer should be applied liberally and evenly. Draw the excess sealer off the surface with a sponge roller. Slit foam rollers are optimal to conform to the surface of the wall and ensure the most even coverage is attained.
- H. Remove all spillage promptly and rinse affected area with water.
- I. When in conflict with any other portion of these specifications, the manufacturer's recommended installation methods shall be followed, except that in all cases the material shall be worked into the surface of the wall using appropriate tools.

1.09 EXECUTION

- A. Work shall cease if inclement weather (rain or strong wind) will affect the operation and shall not recommence until the surface of the wall has dried.
- B. The treated area shall be protected from rain, sprinklers, or any other form of moisture, and usage for 24 hours after completing the application of the sealer.

END OF SECTION