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303WB WATER-BASED SILOXANE WATER REPELLENT

1. PRODUCT DATA

Date of Preparation: March 1, 2015

Product Name: 303WB Water-Based Siloxane
Water Repellent

Producer: Diedrich Technologies, A Hohmann & Barnard
Company, 310 Wayto Road, Schenectady, NY 12303

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*This product is manufactured for Commercial/Industrial
use. Not recommended for: Household use.*

2. PRODUCT DESCRIPTION

Diedrich 303WB Water-Base Siloxane Water Repellent is a VOC compliant, water-based, penetrating, breathable siloxane product, specially formulated for use on precast and poured in place concrete, sandstone, clay and concrete brick, and stucco surfaces where surface darkening is unacceptable. 303WB can be used on both horizontal and vertical applications. It reduces bonding of airborne dirt and hydrocarbons; water damage caused by freeze/thaw cycles is reduced. Provides protection against efflorescence and exhibits excellent resistance to ultraviolet rays, acid rain and chlorine ion penetration.

3. LIMITATIONS

Air and surface temperatures must be 40°F or higher at time of application. Repointing should be done and allowed to dry before application. Caulking must be done and allowed to cure or until material is set, as per manufacturer's instructions. Protect surrounding non-masonry surfaces such as glass, aluminum, painted surfaces etc. Any inadvertent drips, splashes or runs should be removed with water before solution has dried on the surface. Application of the product should not occur when rain is expected within 4 hours. Do not allow product to freeze, store at room temperature (65°F).

Since 303WB may not be suited for application to all surfaces, ie, gypsum, plaster or synthetic resin paint and split face block: test patches must always be conducted.

4. PRECAUTIONS:

Protect all adjacent non-masonry surfaces. Adjacent vegetation should be protected by covering to protect in the event of over-spray and/or excessive runoff.

CAUTION: Product must not be altered. Product must be applied as supplied.

Workers should wear chemical splash goggles to prevent contact with eyes. Care must be taken to prevent over-spray and wind drift on to adjacent buildings, pedestrians and vehicles.

5. PREPARATORY WORK:

Masonry, concrete and stone type surfaces should be clean, dry, sound and free of oil, grease, sand, surface dirt/dust, chemical films, and coatings. Remove loose and/or deteriorated mortar, repoint and allow to dry for at least 72 hours before application. Caulking must be done prior to application of 303WB and allowed to dry 6 to 12 hours for curing (or until material is set) in accordance with manufacturer's instructions. If there is evidence of efflorescence or alkali deposits on the surface it should first be neutralized with either Diedrich 200, 202, or 202V depending on the substrate to be sealed. New concrete should be allowed at least 14 days to cure before application.

A test area of the job MUST be test coated and approved by the architect and building owner before beginning full scale application. Application must be done using the same equipment as would be used during full scale application. Individual surface types must be tested. Inspection of the test areas should occur after the surface has thoroughly dried. There must be hydrophobic resistance to water penetration through the masonry. **A pressure washer or garden hose with a straight stream nozzle shall be directed at the test patch area for approximately 5 minutes or use a Rilem Tube to confirm penetration resistance. A water bucket splash method or spray bottle spritz are unacceptable.**

6. APPLICATION:

Diedrich 303WB must be applied as packaged and per recommendations, do not alter or dilute the product. Surface and air temperature must be above 40°F when being applied.

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To insure uniformity and even solids distribution the product must be thoroughly mixed before application.

Ideally, 303WB should be applied with low pressure (50 psi maximum) airless spray equipment. Working bottom to top a light mist should first be applied to break surface tension. Then apply a flood coat with a minimum of 8 to 12 inch rundown. Depending on the porosity of the substrate a second application may be necessary as indicated by the test patch.

If a brush or roller is used for the application, extra care should be taken to assure sufficient material is applied to saturate the surface thoroughly. Heavy runs or drips should be brushed out if they do not penetrate.

When application is to horizontal surfaces, apply in a single saturating application taking care to insure sufficient material is applied. If pooling or puddles occur they should be broomed out until they thoroughly penetrate into the surface.

7. COVERAGE:

Varying porosity and texture of masonry surfaces will dictate the amount of material required for effective treatment. The following is only a guide for estimating the amount of material necessary for the various surfaces. A test patch must be conducted to determine accurate rates and number of applications.

POURED IN PLACE & PRE-CAST CONCRETE

100-150 sq. ft./gal.

HARD BURNT BRICK

125-150 sq. ft./gal.

SOFT COMMON BRICK, SANDSTONE, STUCCO

100-125 sq. ft./gal.

8. TECHNICAL DATA:

Flash Point: None

Color: Opaque White

Weight: 8.3 lbs/gal.

Carrier: Water

Solids: 7%, 10%, 15%

9. OTHER INFO

Maintenance: Surfaces cleaned by Diedrich products require no maintenance. For safety and to avoid contamination of the product chemical containers should be tightly sealed while in storage.

Technical Services: Architects and building owners may request local distributor and contractor names at any time. For emergencies, personal assistance, technical information, distributors or fast ordering, toll free 1-800-283-3888.

WARRANTY: ALWAYS USE A TEST SAMPLE TO DETERMINE DESIRED RESULTS. PRODUCT FREEZES BELOW 32°F, AND MAY BE ADVERSELY AFFECTED BY COLD WEATHER.

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