

**DIEDRICH 303WB WATER-BASE SILOXANE WATER REPELLENT**

**PRODUCT NAME:**  
DIEDRICH 303WB  
WATER-BASE SILOXANE

**MANUFACTURER:**  
Diedrich Technologies Inc.  
A Division of Sandell Construction Solutions  
7373 S. 6th Street, Oak Creek, WI 53154  
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**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. Diedrich 303WB Water-Base Siloxane can be used on both horizontal and vertical applications. Diedrich 303WB Water-Base Siloxane 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.

**LIMITATIONS**  
Air and surface temperatures must be 40°F or higher at time of application.  
Re-pointing 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).

Hard burnt brick.....125-150 sq. ft./gal.  
Soft common brick.....100-125 sq. ft./gal.  
Sandstone.....100-125 sq. ft./gal.  
Stucco.....100-125 sq. ft./gal.

Since Diedrich 303WB Water-Base Siloxane 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.

**PRECAUTIONS:**  
Protect all adjacent non-masonry surfaces. Adjacent vegetation should be protected by covering to protect in the event of overspray 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 overspray and wind drift on to adjacent buildings, pedestrians and vehicles.

**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, re-point and allowed to dry for at least 72 hours before application. Caulking must be done prior to application of 303WB Water-Base Siloxane 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

**TECHNICAL DATA:**  
FLASH POINT .....NONE  
COLOR.....WHITE OPAQUE  
WEIGHT.....8.3 lbs/gal.  
CARRIER.....WATER  
SOLIDS.....7%

water bucket splash method or spray bottle spritz are unacceptable.

**APPLICATION:**  
Diedrich 303WB Water-Base Siloxane 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. To insure uniformity and even solids distribution the product must be thoroughly mixed before application.

Ideally, Diedrich 303WB Water-Base Siloxane 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, Diedrich 303WB Water-Base Siloxane is to be applied in a single saturating application. Care must be taken to insure sufficient material is applied. If pooling or puddles occur they should be broomed out until they thoroughly penetrate into the surface.

**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.

**7. WARRANTY:**  
A written water repellent warranty is available on an individual project basis. To qualify for warranty there must be a documented test application and the area tested to verify hydrophobic resistance to water penetration by testing with a rilem tube or by directing a pressure washer or garden hose with a straight stream nozzle on the test patch area for

approximately 5 minutes. A water bucket splash method or spray bottle spritz are unacceptable. For information contact Diedrich Technologies, Inc., 7373 S. 6<sup>th</sup> Street, Oak Creek, WI 43154.

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

DIEDRICH TECHNOLOGIES INC., warrants that the product will conform to the description and specifications set forth on the product label and will be free from defects in material and workmanship. The exclusive remedy of the Buyer in the event that the product does not conform shall be the replacement of the product. This warranty is expressly made in lieu of any and all other warranties, expressed or implied, including the warranties of merchantability and fitness, and Diedrich Technologies Inc. shall not be liable for any loss or damage, directly or indirectly arising from the use of such merchandise or for consequential or incidental damages.

While Diedrich Technologies Inc. believes that the data contained herein is accurate and the information is based on test and data believed to be reliable, it is the user's responsibility to

determine the safety, toxicity and suitability for his own use of the product described herein. Manufacturer shall not be responsible for any contamination, or related testing or removal costs resulting from use of this lead-free product on any materials containing lead or toxic or environmentally hazardous substances. Since the actual use, by others, is beyond our control, no guarantee, expressed or implied, is made by Diedrich Technologies Inc., as to the effects of such use, the results to be obtained, or the safety and toxicity of the product referred to herein. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular conditions or circumstances exist, or because of applicable laws or governmental regulations. All claims of any kind against manufacturer arising from or related to this product in any way shall be decided by binding arbitration in accordance with the Construction Industry Arbitration rules of the American Arbitration Association.

**AVAILABILITY:**

Available through a network of 2000 distributors and over 2100 experienced contractors located

throughout the United States, Canada, Mexico, South America, and Europe.

**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 -

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