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## **Silane and Siloxane Penetrating Sealer Water Based**

**Protect the Concrete Without Adding Any Shine**

**Epoxy.com Product #39 - Penetrant Sealer with Very Low VOCs**

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### **DESCRIPTION**

**Silane and Siloxane Penetrating Sealer Product #39** is a one component water based multifunctional self-crosslinking water soluble alkylalkoxy silane and siloxane designed to treat a wide variety of mineral substrates including architectural concrete, concrete block, splitface block, pavers, stucco, porous and dense brick, clay tile, exposed aggregate concrete, sandstone, and slate.

### **ADVANTAGES**

- **Silane and Siloxane Penetrating Sealer Product #39** provides excellent water repellency to reduce cracking, spalling, freeze-thaw damage, chemical degradation, biological growth, efflorescence, and dirt pickup, thereby lengthening substrate life and reducing maintenance costs.
- **Silane and Siloxane Penetrating Sealer Product #39** provides excellent beading for improved aesthetics

- Low VOC emissions on curing. EPA compliant.
- Formulated to minimize darkening effects thus not changing substrates appearance (20% strength or less.)
- Good performance on both neutral and highly alkaline surfaces providing application field flexibility.
- Physically and chemically bonds to substrate
- Product is UV stable and will not discolor
- Product is resistant to biological degradation for longer service life.
- Coatings are vapor permeable to resist cracking, peeling, blistering and allows for carbonation to continue after the coatings application. This allows for lengthened substrate life and for greater substrate structural strength over time.

## WHERE TO USE

**Silane and Siloxane Penetrating Sealer Product #39** can be used for sealing bridge decks, parking garages, parapet walls, roadways, structural concrete, brick work (clay and lime sand), wood and mortar.

Reduction of chloride content into Concrete td>

| PHYSICAL PROPERTIES                        |                                |
|--|--------------------------------|
| Color                                      | White opaque emulsion.         |
| Flash Point                                | None                           |
| UV 90 day exposure (ASTM C 1378)           | No change in appearance        |
| Water Repellency                           | passes ASTM E514               |
| Water Repellency                           | NCHRP 244 (86.75)              |
| Water Repellency - After 1 month           | NCHRP 244 (81.88)              |
| Water Repellency - After 5 freeze-thaws    | NCHRP 244 (85.5)               |
| Unaltered Appearance ((Delta E/5% Solution | 1.08/1                         |
| Scaling                                    | ASTM C672 (Highest Rating - 0) |

## COVERAGE

When the surface is fully saturated, coverage will depend on the absorptivity of the substrate resulting in 100 to 400 square feet per gallon coverage.

## FINISH CHARACTERISTICS

**Silane and Siloxane Penetrating Sealer Product #39** does not change the overall appearance of the substrate. After the material is applied and allowed to dry for 24 hours, it will not be readily apparent that the application has occurred, except the surface will exhibit excellent water repellency.

## ABRASION RESISTANCE

The application of **Silane and Siloxane Penetrating Sealer Product #39** will increase the abrasion resistance of most substrates. Results will vary according to substrate type.

## ADHESION

Because **Silane and Siloxane Penetrating Sealer Product #39** becomes an integral part of the surface that is coated and

does not form an impermeable barrier, delaminations do not occur.

## DOT CLASSIFICATION

“Not regulated”

## VISCOSITY

Less than 25 cps

APPLICATION TEMPERATURE: 45-95 degrees F.

## SURFACE PREPARATION

Surfaces to receive **Silane and Siloxane Penetrating Sealer Product #39** must be clean and sound. While some moisture present in the concrete or masonry will not affect the performance of Epoxy.com Product #39 Silane and Siloxane Penetrating Sealer, the drier the surface, the deeper the penetration.

## APPLICATION

Stir well before use. **Silane and Siloxane Penetrating Sealer Product #39** may be applied by spray (using hand-pumped pressure sprayer), brush, roller - or dipping of masonry units. For best results, use hand-pressure spray equipment instead of compressed air. For best results on most masonry surfaces, two (2) applications are recommended. Dense new concrete surfaces may only require one (1) application.

## CURE SCHEDULE

(70°) Allow **Silane and Siloxane Penetrating Sealer Product #39** to dry for a 24 hour period of time to obtain the maximum benefits of the application

## PACKAGING

One (1) and Five (5) gallon cans and fifty-five (55) gallon drums.

## SHELF LIFE

6 months

## LIMITATIONS:

- Do not apply on or through standing water.
- Material is not intended to seal moving cracks from moisture intrusion.
- Not to be used to prevent leaks from hydrostatic pressure.
- **Do not apply** at surface temperatures **below 45°F**, or when surface temperature is expected to fall below 45°F within four (4) hours after application
- Always apply test patch before using.
- Highly Concentrated solutions may remain slightly tacky, when dry. Always test your dilution over the substrate to be applied to determine the suitability before using.

## PRODUCT STORAGE

Store **Silane and Siloxane Penetrating Sealer Product #39** in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 50 and 80 degree F. Keep from freezing.

## SURFACE PREPARATION

All dirt, oil, dust, foreign contaminants and sealers must be removed to assure a trouble free application. This product will work on a wide variety of substrates but a test patch should be placed prior to undertaking the application. The surface to be treated should be dry and should remain dry for a twenty four hour period after the application. Prepare surface by: abrasive blasting, acid etching, solvent degreasing, caustic soda scrubbing, or high pressure washing. If strong acidic or alkaline cleaning agents are used, neutralize the surface and remove all residue before application. Always apply a test patch to insure product suitability.

## PRODUCT APPLICATION

Stir **Silane and Siloxane Penetrating Sealer Product #39** before using. Apply material without thinning when at a 20% concentration or dilute with water when using the 40% concentration according to the required concentration level necessary. Apply material with a brush, roller, or spraying equipment. Apply the treatment to the surface until it is saturated without puddles. Typical application rates will be about 125-200 square feet per gallon. Apply two coats using a wet-on-wet procedure to ensure complete coverage. Maximum water repellency is achieved in 72 hours depending on environmental conditions. Beading generally improves over time. Do not use for below grade applications or where water pressure is from interior walls. Do not apply to plastic or foam substrates. Penetrating sealer will not prevent water passage through unsound or cracked surfaces. Protect surrounding areas from overspray or splatter.

## RECOAT OR TOPCOATING

Two coats of **Silane and Siloxane Penetrating Sealer Product #39** are recommended. Substrates that are coated with concentrations at 10% or less are generally recoatable and will actually improve the adhesion on mineral substrates.

## CLEANUP

Use any suitable detergent and water.

## FLOOR CLEANING

**Caution!** Although very unlikely, some cleaners may affect the color of the treated surface. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

## RESTRICTIONS

Restrict the use of the substrate to light traffic and non-harsh chemicals including water until 24 hours has passed. Keep the area dry for this period (excluding the application of the product.). Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

## NOTICE TO BUYER

**DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY** We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. **NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT**

SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products.

## CAUTION

Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM. In case of contact, immediately flush eyes or skin with plenty of water for at least fifteen (15) minutes. Call a physician in case of severe skin or eye irritation. Wash clothing before re-use. Wear protective clothing, goggles, gloves, and/or barrier creams.

### ***KEEP AWAY FROM CHILDREN***

Proper mixing and installation is critical to the optimal success of all product. See [Installation Tips](#), [Techdata](#), & [MSDS](#) for more details on our products. Be sure to contact us with any questions and/or concerns that you have.

For more information please contact:

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