BARACADE SILANE 40 IPA
ISOPROPYL ALCOHOL-BASED SILANE WATER REPELLENT

DESCRIPTION

BARACADE SILANE 40 IPA is a breathable, ready-to-use, colorless, non-staining, non-yellowing, deep penetrating concrete and masonry water repellent.

PRIMARY APPLICATIONS

- Brick walls
- Concrete block & CMU
- Brick pavers
- Bridge decks
- Concrete surfaces
- Precast concrete
- Parking decks
- Concrete ramps

FEATURES/BENEFITS

- Reduces intrusion of water, deicing chemicals, and airborne contaminants
- Penetrates deep into capillaries of treated surface
- Improves freeze-thaw resistance
- Will not alter texture or appearance of treated surface
- Will not etch glass

TECHNICAL INFORMATION

Typical Engineering Data
The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

<table>
<thead>
<tr>
<th>MATERIAL PROPERTIES</th>
<th>ABSORPTION REDUCTION ASTM C642</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silane Content</td>
<td>40%</td>
</tr>
<tr>
<td>VOC Content</td>
<td>580 g/L</td>
</tr>
<tr>
<td>Flash Point (Minimum)</td>
<td>54°F (12°C)</td>
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<tr>
<td>Density</td>
<td>6.8 lbs/gal (0.82 kg/L)</td>
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<tr>
<td>Resistance to UV</td>
<td>Excellent</td>
</tr>
<tr>
<td>Dry Time (Foot Traffic)</td>
<td>2 to 6 hours</td>
</tr>
<tr>
<td>Dry Time (Wheel Traffic)</td>
<td>10 to 12 hours</td>
</tr>
<tr>
<td>NCHRP Report 244, Series II Reduction in Water Absorption</td>
<td>93.5%</td>
</tr>
<tr>
<td>NCHRP Report 244, Series II Reduction in Chloride Ion Content</td>
<td>93.4%</td>
</tr>
<tr>
<td>NCHRP Report 244, Series IV Accelerated Weathering (Southern Exposure)</td>
<td>No change</td>
</tr>
<tr>
<td>NCHRP Report 244, Series IV Reduction in Chloride Ion Content</td>
<td>89.3%</td>
</tr>
</tbody>
</table>

Absorption Reduction

<table>
<thead>
<tr>
<th>ACCELERATED WEATHERING @ 1,500 HOURS ASTM G154</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent</td>
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</table>

Packaging

BARACADE SILANE 40 IPA is packaged in 55 gal (208 L) drums, 5 gal (18.9 L) pails, and in cases of 1 gal (3.8 L) jugs (6 jugs per case).
**WARRANTY:** The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid’s installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid’s products for the Buyer’s intended purposes.

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**Clean-Up**

Clean tools and equipment with alcohol, mineral spirits, or similar solvent immediately following use. Clean drips and over spray while still wet. Clean overspray from glass and other non-absorbent materials immediately after application.

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**Precautions/Limitations**

- Store material between 40°F and 85°F (4°C and 29°C). Protect from moisture, direct sunlight, and freezing.
- BARACADE SILANE 40 IPA contains isopropyl alcohol and is FLAMMABLE, with a flash point of 53°F (12°C). Avoid fire, open flame and sparks.
- Use in a well-ventilated area.
- Do not dilute
- Do not allow to puddle. All product should penetrate the substrate with no surface build-up.
- Do not apply to a frost filled surface or when the temperature is below 20°F (0°C).
- Do not apply if rain is expected within 4 to 6 hours.
- Check compatibility before application of BARACADE SILANE 40 IPA. Certain types of concrete block, particularly those containing integral water repellents, may exhibit a darkening effect when product is applied.
- A small (6’ x 6’) test area is strongly recommended prior to starting full application, in order to ensure desired performance results, aesthetics, and coverage rates. Allow 5 to 7 days for product to fully react before evaluating.
- In all cases, consult the Safety Data Sheet before use.

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**Coverage**

<table>
<thead>
<tr>
<th>Surface Type</th>
<th>ft²/gal (m²/L) per coat</th>
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</thead>
<tbody>
<tr>
<td>Concrete block</td>
<td>50 to 75 (1.23 to 1.84)</td>
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<tr>
<td>Smooth concrete</td>
<td>150 to 250 (3.68 to 6.14)</td>
</tr>
<tr>
<td>Exposed aggregate</td>
<td>100 to 200 (2.45 to 4.91)</td>
</tr>
<tr>
<td>Decks/ramps</td>
<td>100 to 125 (2.45 to 3.07)</td>
</tr>
<tr>
<td>Brick</td>
<td>100 to 250 (2.45 to 6.14)</td>
</tr>
<tr>
<td>Stone</td>
<td>100 to 250 (2.45 to 6.14)</td>
</tr>
</tbody>
</table>

Because of variations in surface density, these coverage rates are approximate and are intended for estimating purposes only. Use test applications on actual surfaces to accurately determine coverage rates. Very porous surfaces may require two coats of BARACADE SILANE 40 IPA.

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**Directions for Use**

**Surface Preparation:** Cure new concrete a minimum of 3 days before application. Surface must be clean, dry, structurally sound, free of curing or form release compounds and other contaminants that will prevent the proper penetration of product. Prior to application, joints and moving cracks must be properly sealed with an elastomeric joint sealant. Non-moving cracks and voids wider than 1/64 inch (0.4 mm) must be filled with a suitable patching material. Do not apply product to a wet surface. Surfaces must dry a minimum of 24 hours following rain or exposure to other sources of moisture. Install caulking before product application. Mask or protect adjacent surfaces, including grass, plants, shrubs, metal, and asphalt from overspray or drips.

**Application:** Flood the surface with BARACADE SILANE 40 IPA using a low-pressure, non-atomizing, airless sprayer, roller, or broom. Use solvent-resistant equipment and gaskets. Distribute material evenly and do not allow the material to puddle. If a second coat is required, apply after the surface absorbs the initial coat of BARACADE SILANE 40 IPA. When applying to horizontal areas, brush out puddles or excess material. For vertical surfaces, apply from top down to product a 6” to 8” (15 to 20 cm) rundown.

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**Specifications/Compliances**

**Canadian MTQ**
- Alberta Transportation B388 (Type 1b)
- BARACADE SILANE 40 IPA meets the performance standards of NCHRP 244

**Complies with Federal AIM Rule VOC regulations**

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**Shelf Life**

2 years in original, unopened container

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**Rev. 01.20**