



BARACADE SILANE 40 WB

Water-Based Silane Water Repellent

Description

BARACADE SILANE 40 WB is a water-based, breathable, ready-to-use, non-yellowing, deep penetrating concrete water repellent containing 40% silane. It protects concrete against the damaging effects of water intrusion, deicing chemicals, freeze-thaw exposure, and airborne contaminants such as acid rain and smog. BARACADE SILANE 40 WB will not change the appearance or texture of the treated surface. BARACADE SILANE 40 WB produces a water repellent surface by penetrating and reacting deep within the capillaries of the substrate, and does not form a film at the surface.

Primary Applications

- Parking decks
- Bridge decks
- Public sidewalks and ramps
- Concrete parapets and barriers
- Precast concrete
- Brick and masonry

Features/Benefits

- Reduces intrusion of water, deicing chemicals, and airborne contaminants
- Provides a chloride screen to help protect steel reinforcement from corrosion
- Penetrates deep into capillaries of treated surface
- Improves freeze-thaw resistance
- Will not alter texture or appearance of treated surface
- Water-based - low VOC content
- Will not etch glass

Technical Information

Typical Engineering Data

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

Material Properties	
Silane Content	40%
VOC Content	326 g/L
Density	7.9 lbs/gal (0.95 kg/L)
Resistance to UV	Excellent
Dry Time (foot traffic)	4 to 6 hours
Dry Time (wheel traffic)	10 to 12 hours
NCHRP Report 244, Series II Reduction in Water Absorption	
87.0%	
NCHRP Report 244, Series II Reduction in Chloride Ion Content	
88.1%	
Salt Scaling ASTM C672	
Scaling Loss @ 50 Cycles	0.0 lbs/in ²
Scaling Rating @ 50 Cycles	Rating 0 (no scaling)

NCHRP Report 244, Series IV Accelerated Weathering (Southern Exposure)	
No change	
NCHRP Report 244, Series IV Reduction in Chloride Ion Content	
91.3%	
Absorption Reduction ASTM C642	
Water Absorption @ 48-hours	0.40%
Absorption Reduction vs. Control @ 48-hours	87.9%
Accelerated Weathering @ 1,500 hours ASTM G154	
Excellent	

Packaging

BARACADE SILANE 40 WB is packaged in 55 gal (208 L) drums and in 5 gal (18.9 L) pails.

Shelf Life

18 months in original, unopened container

Specifications/Compliances

BARACADE SILANE 40 WB Meets the performance standards of NCHRP 244

Coverage

The coverage rate for BARACADE SILANE 40 WB is 125-250 ft²/gal (3.07-6.14 m²/L). Because of variations in surface density, this coverage rate is approximate, and is 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 WB.

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. Protect windows, cars, and other important objects from overspray. 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 WB 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 WB, but before the initial coat fully dries. When applying to horizontal areas, brush out puddles or excess material. For vertical surfaces, apply from top down to produce a 6" to 8" (15 to 20 cm) rundown.

Clean-Up

Clean tools and equipment with water immediately following use. Clean drips and over spray while still wet. Clean overspray from glass and other non-absorbent materials immediately after application.

Precautions/Limitations

- Store material between 40°F and 90°F (4°C and 32°C). Protect from moisture, direct sunlight, and freezing.
- 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 45°F (7°C).
- Do not apply if rain is expected within 4 to 6 hours.
- Check substrate compatibility before application of BARACADE SILANE 40 WB. 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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