

BARACADE[®] SILANE 40

SILANE BASED WATER REPELLENT

DESCRIPTION

BARACADE SILANE 40 is a breathable, ready-to-use, colorless, non-staining, non yellowing, deep penetrating concrete and masonry water repellent compound. It protects concrete, block, stone and brick against the damaging effects of water intrusion, deicing chemicals, freeze-thaw exposure and airborne contaminants such as acid rain, smog and industrial fumes. BARACADE SILANE 40 protects without altering the appearance or texture of the treated surface. BARACADE SILANE 40 produces a non filming water repellent surface while penetrating deep into the capillaries of the subsurface. Chemical reactions within the capillaries form long lasting water repellent groups that crosslink into a silicone compound.

PRIMARY APPLICATIONS

- Sidewalks & ramps
- Exposed aggregate
- Precast, prestressed & poured in place concrete
- Parking and bridge decks
- Industrial floors
- Lightweight & air entrained concrete

TECHNICAL INFORMATION

Typical Engineering Data Material Properties @ 75° F (24°C)

Flash point min	105°F (41°C)
Actives content min	40%
Weight/gal	6.88 lbs/gal
Resistance to UV	excellent
Abrasion resistance	excellent
Average depth of penetration (substrate dependent)	3/8" (0.95 cm)
VOC content	<600 g/L
Drying time (foot traffic)	2 to 6 hrs

Baracade Silane 40 Test Results NCHRP 244 SERIES I TESTS

	Minimum Requirement	BARACADE SILANE 40
Reduction in water absorption	75%	87.6%
Water vapor transmission	100%	131.7%
Reduction in chloride intrusion	75%	85.3%
NCHRP 244 SERIES IV TESTS		
Northern climate		97.6%
Southern climate		97.6%
Freeze thaw durability ASTM C 666		93.5%
Scaling resistance ASTM C 672		0
100 cycles		"no scaling"
Wind driven rain ASTM E 514	Brick	100%
Reduction in leakage	CMU	95%

PACKAGING

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

SHELF LIFE

2 years in original, unopened package.

COVERAGE

Surface Type	ft ² /gal (m ² /L) per coat
Smooth Concrete	150 to 250 (3.68 to 6.14)
Exposed Aggregate	100 to 200 (2.45 to 4.91)
Bridge Decks/Ramps/Driveways	100 to 150 (2.45 to 3.68)
Resealing Bridge Decks/Ramps	150 to 250 (3.68 to 6.14)

Because of variations in surface density, the coverage rates are approximate and are intended for estimating purposes only. Use test applications on actual surfaces to accurately determine coverage rates. Extremely porous surfaces may require 2 coats of BARACADE SILANE 40.



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SPECIFICATIONS/COMPLIANCES

- BARACADE SILANE 40 meets the performance standards of NCHRP 244
- ASTM E 514

DIRECTIONS FOR USE

Surface Preparation: Cure new concrete 28 days before application. Surface must be clean, dry and structurally sound. The substrate must also be free of all curing compounds, form release agents and any other contaminants which may prevent the proper penetration of BARACADE SILANE 40. Prior to application, joints or cracks in movement must be properly sealed with an elastomeric joint sealant. Surfaces must be dry for a minimum of 24 hours prior to application. Mask all adjacent surfaces including grass, plants, shrubs and asphalt to protect from drips or over spray. For surfaces that have had prior coatings or surface treatments, contact your local Euclid representative for recommendations.

Application: BARACADE SILANE 40 should be applied using airless spray equipment. A garden sprayer may be used for smaller projects only when an airless sprayer is not available. Do not use pressure pot or lacquer type paint sprayers. To produce the proper material flow, reduce air pressure on pumping equipment and use spray tips with orifice sizes no smaller than 0.035" (0.9 cm). Larger tips may be required with some spray equipment to get desired material flow. Flood the surface with BARACADE SILANE 40 using a low pressure sprayer, roller or broom. Distribute material evenly. After the surface absorbs the BARACADE SILANE 40, apply a second coat before the surface dries. Do not allow the material to puddle.

CLEAN-UP

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

PRECAUTIONS/LIMITATIONS

- Store at temperatures between 40°F to 90°F (4°C to 32°C).
- 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 40°F (4°C).
- Do not apply if rain is expected within 12 hours.
- Do not apply to non-absorbent surfaces such as glass, metal, glazed brick or tile.
- Use in a well ventilated area. Avoid breathing vapors or mist.
- In all cases, consult the Material Safety Data Sheet before use.

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