



TECHNICAL DATA SHEET

BARACADE® SILANE 100

High Performance Water Repellent

07190
WATER REPELLENTS
THERMAL AND MOISTURE PROTECTION

TAMMS INDUSTRIES
MARCH 2002 (Replaces 1/01)

- DESCRIPTION:** BARACADE SILANE 100 is a breathable, ready-to-use, colorless, non-yellowing, deep penetrating concrete and masonry water repellent. BARACADE SILANE 100 is a 100% silane formulation which can produce a hydrophobic treatment to reduce water absorption. The product 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. Due to the 100% silane composition BARACADE SILANE 100 exhibits low volatility and higher coverage rates than solvent based silane materials.
- USES:** BARACADE SILANE 100 is formulated to protect horizontal, above grade concrete wearing surfaces including precast, pre-stressed, poured-in-place, exposed aggregate, lightweight and air entrained concrete. Applications include sidewalks, ramps, parking decks and bridge decks.
- COMPOSITION AND MATERIALS:** BARACADE SILANE 100 is a clear liquid with a 100% silane composition.
- SURFACE PREPARATION:** Cure new concrete 28 days before application. Surface must be clean, dry, open capillary, 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, glass, autos, and asphalt from overspray or drips. For surfaces that have had prior coatings or treatments, contact TAMMS Technical Service Center.
- APPLICATION TECHNIQUES:** Use low pressure airless spray equipment with solvent resistant hose and gaskets. Garden type sprayers may be appropriate for smaller projects. Brushes and rollers on large projects may not achieve a uniform coverage rate. Apply BARACADE SILANE 100 in a single application to the horizontal surface with enough material to saturate the surface. Remove excess material with a broom or squeegee. If a second coat is required it should be applied "wet on wet" before first coat dries.

Material Properties @ 75° F (25°C)

Flash point - min	145°F (63°C)
% silane	100
Weight per gallon	7.6 lbs/gal
Volatile Organic Content	275
Resistance to UV	Excellent
Abrasion Resistance	Excellent

Average Depth of penetration (Concrete)	5 mm
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NCHRP 244, Series II	Reduction of Water Absorption, %
Days in Water	
1	94
3	89

Chloride Penetration % Reduction	91
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- COVERAGE:** Because of variations in surface density, the following 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 two coats of BARACADE SILANE 100.

Sq. ft. per gal. per coat

Surface Type

Smooth Concrete	200-350
Exposed Aggregate	225-375
Decks/Ramps	200-300

- CAUTIONS:** Do not dilute. Do not apply to a frost filled surface or when the temperature is below 32°F. Do not apply if rain is expected within 12 hours. Not intended for use on below grade applications or applications where hydrostatic pressures exist. May not be

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effective on certain types of limestone or marble. Test application is always recommended to confirm performance and appearance. Use in a well ventilated area.

8. **CLEAN-UP INSTRUCTIONS:** Clean tools and equipment with alcohol, mineral spirits or similar solvent immediately following use. Clean drips and over spray while still wet. Clean glass and other non absorbent materials soon after application.
9. **PACKAGING:** 5 gallon and 55 gallon steel DOT approved containers. Store at temperatures below 90°F. Shelf life is one year in proper storage.
10. **ENVIRONMENTAL AND SAFETY PRECAUTIONS: Industrial Use Only.** BARACADE SILANE 100 is a DOT combustible liquid. Avoid fire, open flame and sparks. Avoid breathing vapors or mist. BARACADE SILANE 100 is irritating to eyes and skin. Avoid splashing into eyes and prolonged contact with skin. In case of eye contact, flood eyes repeatedly and call a physician immediately. **DO NOT RUB EYES.** Wash hands with soap and clean water immediately after use and before eating or smoking. Protect shrubbery, plants and grass during application. Protect asphalt and rubber surfaces from spills and over spray. **KEEP OUT OF REACH OF CHILDREN.** Consult Material Safety Data Sheet for complete product safety information. **EMERGENCY RESPONSE PHONE NUMBERS ARE (800) 862-2667 TAMMS OR (800) 424-9300 CHEMTREC.**
11. **TECHNICAL SERVICE:** For application procedures or surface conditions not specified above, please contact:

TAMMS INDUSTRIES
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800-862-2667 FAX: 815-522-2323
www.tamms.com

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