

TECHNICAL DATA SHEET

BARACADE® SILANE 40 IPA

VOC Compliant Silane Based Water Repellent

1. **DESCRIPTION:** BARACADE SILANE 40 IPA is a breathable, ready-to-use, colorless, non-staining, nonyellowing, deep penetrating concrete and masonry water repellent.

FEATURES AND BENEFITS

- Alkylalkoxysilane concentration of greater than
- Penetrates deep into capillaries of treated surface
- Reduces intrusion of water, deicing chemicals, and airborne contaminants
- Improves freeze-thaw resistance
- Will not alter texture or appearance of treated surface
- Colorless, Non-staining, Non-yellowing
- Breathable

07190

THERMAL AND MOISTURE PROTECTION

WATER REPELLENTS

- Will not leave a residue on most non-porous substrates, such as, glass, metal frames and painted surfaces
- VOC Compliant

APPLICATIONS

For use on above grade, vertical or horizontal surfaces such as:

- Brick Walls
- Concrete Block & CMU
- Brick Pavers
- Bridge Decks
- Concrete Surfaces
- Parking Decks
- Precast Concrete
- Concrete Ramps
- 2. **COMPOSITION AND MATERIALS:** BARACADE SILANE 40 IPA is a solution of an alkylalkoxysilane in isopropyl alcohol. This formulation results in a stable, easily applied water repellent.
- **COMPLIANCE:** BARACADE SILANE 40 IPA meets the requirements of Alberta Transportation and Utilities (AT&U) Specification B388 Sealer Types 1a and 1b. BARACADE SILANE 40 IPA meets NCHRP 244 specifications. VOC level is 585 grams/liter which is compliant with national AIM VOC regulations.
- 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

Material Properties @ 75° F (25°C) 53°F (11°C) Flash point - min Active Solids by Weight >40% V.O.C. <600 g/l Resistance to UV Excellent Abrasion Resistance Excellent ALBERTA TRANSPORTATION & UTILITIES RESULTS Specification B388, Type 1a and 1b Passes Waterproofing, % reduction of absorption 85.6 Waterproofing after abrasion, % reduction of absorption 87.7 Alkali Resistance, % reduction of absorption 86.1 NCHRP 244 SERIES 1 TESTS Minimum Requirement SILANE 40 Reduction in Water Absorption 83.8% 100% Water Vapor Transmission 111.4%Reduction in Chloride Intrusion 82.7% NCHRP 244 SERIES IV TESTS Northern Climate 97.6% Southern Climate 97.6% ASTM C666 Freeze Thaw Durability 95.3% ASTM C672 Scaling Resistance 0 ASTM E514 Wind Driven Rain 100% Brick Reduction in Leakage **CMU** 95%

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. For surfaces that have had prior coatings or treatments, contact TAMMS Technical Service Center.

5. APPLICATION TECHNIQUES: Flood the surface with BARACADE SILANE 40 IPA using a low pressure sprayer, roller or broom. Distribute material evenly. 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. Use low pressure spray equipment for application. Do not vaporize the material. Use solvent resistant equipment and gaskets. When applying to horizontal areas brush out puddles or excess material.

For vertical surfaces apply from top down to produce a 6" – 8" rundown.

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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 40 IPA.

	Sq. ft. per gal. per coat
Surface Type	-
Concrete Block	50-75
Concrete Masonry Unit	50-75
Smooth Concrete	150-250
Exposed Aggregate	100-200
Decks/Ramps	100-125
Brick	100-250
Stone	100-250

- 7. CAUTIONS: Do not dilute. Do not apply to a frost filled surface. Do not apply if rain is expected within 12 hours. Use in a well ventilated area. Caution should be taken with specialty coated glass, plastic windows or dirty windows. Check compatibility before application of BARACADE SILANE 40 IPA. Certain types of concrete block, particularly those which contain integral water repellents, may exhibit a darkening effect when Baracade Silane 40 IPA is applied. A test area is always recommended prior to application to confirm performance and appearance.
- 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 nonabsorbent materials soon after application.
- 9. **PACKAGING:** 5 gallon and 55 gallon steel DOT approved containers. Store at temperatures between 40°F and 90°F (4.4°C-32.2°C). Shelf life is one year in proper storage. Freight class is 60.
- 10. ENVIRONMENTAL AND SAFETY PRECAU-TIONS: Industrial Use Only. BARACADE SILANE 40 IPA contains alcohol solvent and is FLAMMABLE with a flash point of 53°F. Avoid fire, open flame and sparks. Avoid breathing vapors or mist. BARACADE SILANE 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, INC. 3835 State Route 72, Kirkland, IL 60146 800-862-2667 FAX: 815-522-2323 www.tamms.com

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