TECHNICAL DATA SHEET

SpecSilane 40 WB

40% Solids, Water-Based Penetrating Silane Sealer

DESCRIPTION

SpecSilane 40 WB is a 40% solids, 100% reactive waterborne silane sealer. This clear, penetrating, breathable water repellent is designed for interior and exterior, above-grade concrete or masonry surfaces. SpecSilane 40 WB penetrates the surface and bonds directly with the substrate, resulting in a surface that is highly resistant to both moisture and salt.

SpecSilane 40 WB helps protect concrete and masonry surfaces, decks, pavements, parking structures, ramps, bridges, marine platforms and similar structures against the corrosive effects of deicing salts, moisture and weathering, preventing spalling and deterioration of concrete structures. VOC compliant.

BENEFITS

- Provides an excellent chloride screen
- Excellent water repellency while maintaining breathability
- VOC compliant; water-based
- Reduces the effects of freeze-thaw cycling and weathering on concrete structures
- Long-lasting protection for new and old concrete surfaces
- Dries tack-free and skid-resistant
- Colorless and non-yellowing

APPLICATION

Equipment: Roller, brush or low-pressure sprayer.

Coverage Rate

Average rate is determined by surface porosity:

Porous surfaces..... 100–125 sq ft/gal (2.5–3.1 m^2/L)
Broom finish ..... 100–150 sq ft/gal (2.5–3.7 m^2/L)
Smooth concrete ..... 150–200 sq ft/gal (3.7–4.9 m^2/L)

New Concrete: The surface should be well cured (28-day minimum) using water, wet burlap, polyethylene, curing paper or a dissipating resin-based curing compound. The surface must be free of all curing residue, dust, debris, oil and other contaminants, and must be absorptive to allow penetration of SpecSilane 40 WB. All joint sealants, caulks and patching should be in place before application.

Old Concrete and Masonry: Remove any previously applied sealers, dust, dirt, tar, oil, etc. with a pressure wash and SpecChem Citrus Cleaner, or use other appropriate measures to properly prepare the substrate. Membranes of any kind must be removed. Substrates must be absorptive to allow penetration of SpecSilane 40 WB.

Horizontal Surfaces: Flood surfaces with SpecSilane 40 WB using a low-pressure sprayer (airless sprayer, 10–20 psi / 0.07–0.14 MPa), roller, brush or broom. Broom or squeegee for even distribution. On extremely porous surfaces, a second application may be applied immediately, wet-on-wet, before the first application has dried. Do not allow to puddle; redistribute any puddles or free-standing material before SpecSilane 40 WB dries.

TECHNICAL DATA INFORMATION

Meets and surpasses Fed. Spec. SS-W-110b (GSA-FSS) performance.

Color (Gardner).....2 max.
Odor .....None
Weight ..... 8.8 lb/gal (1.05 kg/L)
Carrier ..... Water
Composition..... Alkylalkoxysilane in water
Net alkylalkoxysilane ..... 40% by weight
VOC content (EPA Method 24) ..... < 50 g/L

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Flash point (ASTM D3278)..... > 200 °F (93 °C)
Specific gravity at 25 °C..... 0.96

Average Depth Penetration (AASHTO T259 and T260)
At 1/2" (13 mm) level (criterion 1.5)....< 0.5 lb/yd³ (0.30 kg/m³)
At 1" (25 mm) level (criterion 0.75)..... 0.00 lb/yd³
Water absorption (ASTM C642, OK DOT std.) 0.40% at 48 hours; 1.1% at 50 days
Scaling resistance (ASTM C672, non-air-entrained concrete)..... 0 rating, "no scaling"

NCHRP 244
Series II cube test (125 sq ft/gal): water weight gain .....88% reduction (exceeds criteria)
Series II cube test: absorbed chloride.....89% reduction (exceeds criteria)
Series IV southern-climate exposure: absorbed chloride .....96% reduction (exceeds criteria)
Alberta Transportation procedure (ATST2a), water repellency.....89.2%

Chloride Ion Penetration Resistance (AASHTO T259 and T260)
At 1/2" (13 mm) level (criterion 1.5).....< 0.26 lb/yd³
At 1" (25 mm) level (criterion 0.75)..... 0.00 lb/yd³
Moisture vapor transmission rate (OHD-L-35) ...101.3%
Drying time, normal conditions. 4 hours at 75 °F (24 °C)
Surface appearance after application.....No change

PACKAGING

55 gal (208 L) drum; 5 gal (18.9 L) pail

SHELF LIFE

Keep containers sealed and store in a clean, dry area between 45 °F and 85 °F (7–29 °C). Keep from freezing. Shelf life is one year in unopened containers.

LIMITATIONS

DO NOT ALLOW TO FREEZE!

Not suitable for asphaltic surfaces. Protect glass, metal and other non-masonry surfaces from overspray. Do not use if air, product or surface temperatures are below 40 °F (4 °C) or above 100 °F (38 °C). Do not use over a curing membrane. Initial reaction occurs in 16–24 hours. Treated areas may be returned to service once the product has penetrated and the surface is dry. Do not overapply.

Substrates should be saturated with material, but puddling should be avoided. Do not apply if precipitation is expected within 4 hours, or if rain has fallen in the 24 hours before application. SpecSilane 40 WB is not formulated for below-grade waterproofing and is not effective on some stone surfaces. Overapplication may cause slight darkening of the surface or residual tackiness. Do not apply in high winds. Do not dilute.

Wear protective gloves and goggles. Avoid prolonged skin contact. Allow NO contact with foodstuffs. Refer to the Safety Data Sheet (SDS) for more detailed information.

TECHNICAL SERVICES

For assistance, contact Technical Services at 866-791-8700 or 913-371-8700.

WARRANTY

NOTICE – READ CAREFULLY

CONDITIONS OF SALE

SpecChem offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION

SpecChem warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN

THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.

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