TECHNICAL DATA

SPECSILANE 40 WB

40% solids water-based penetrating silane sealer

GREENCONSCIOUS

DESCRIPTION

SPECSILANE 40 WB is a 40% solids, 100% reactive, waterborne silane sealer. This clear, penetrating, breathable water repellent is designed for use on interior and exterior above grade concrete or masonry surfaces. SPECSILANE 40 WB penetrates the surface and bonds directly with the substrate, which results 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 etc. against the corrosive effects of de-icing salts, moisture and weathering to prevent spalling and deterioration of concrete structures. VOC compliant.

FEATURES/BENEFITS

- Provides 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 protections for new as well as 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 ft^2/gal
Broom finish:	100-150 ft^2/gal
Smooth concrete:	150-200 ft^2/gal

NEW CONCRETE: Surface should be well cured (28 day minimum) using water, wet burlap, polyethylene curing paper, or dissipating resin-based curing compound. Surface must be free of all curing residue, dust, debris, oil and other contaminates. Substrates must be absorptive to allow penetration of the SPECSILANE 40 WB. All joint sealant, caulks and patching should be in place before applying.

HORIZONTAL SURFACES: Flood surfaces with SpecSilane 40 WB using a low pressure sprayer (airless sprayer 10 to 20 psi), roller, brush or broom. Broom or squeegee around for even distribution. On extremely porous surfaces, a second application may be immediately applied before the 1st application has dried in a wet-on-wet method. Do not allow to puddle and redistribute any puddles or free standing material before SpecSilane 40WB dries.

APPLICATION CONT.

OLD CONCRETE AND MASONRY: Remove any previously applied sealers, dust, dirt, tar, oil, etc. with 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 the SPECSILANE 40 WB.

PACKAGING

55 gallon drums
5 gallon pails

TECHNICAL DATA

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

Color (gardner)	2 Max
Odor	None
Weight	8.8 lbs per gallon
Carrier	water

Composition	Alkylalkoxysilane in water
Active Alkylalkoxysilane Net	40% by weight
VOC Content (EPA Method 24)	Less Than 50 grams/liter
Flash Point (ASTM D3278-82)	Greater than 200°
Specific Gravity –25°	0.96
Average Depth Penetration (AASHTO T259 and T260)	Less than 0.5lbs/yd^3 (Criteria of 1.5 at 1/2" level) 0.00/yd^3 (Criteria of 0.75 at 1' level)
Water Absorption Test (ASTM C642-82) (OK. DOT. STD.)	0.40%/ 48hrs 1.1%/ 50 days
Scaling Resistance Test (ASTM C672-84) (Non-air-entrained Concrete)	0 rating "No Scaling"
Viscosity	10 cP

SPECCHEM
Solution to Service

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TECHNICAL DATA *cont'd*

NCHRP 244
Series II-Cube Test (125 sq.ft./gallon application)

Water weight gain	88% reduction-exceed criteria
Absorbed Chloride	89% reduction-exceed criteria
NCHRP244 Series IV Southern Climate– Exposure Test Absorbed Chloride	96% reduction-exceed criteria
Alberta Transportation and Utility Procedure (ATST2a) Water Repellant performance	89.2%
Resistance of chloride ion penetration (AASHTO T259 and T260)	Less than 0.26lbs/yd³ (Criteria of 1.5 at 1/2" level) 0.00lbs/yd³ (Criteria of 0.75 at 1" level)
Moisture vapor transmission rate (OHD-L-35)	101.3%
Drying time under normal Conditions	4hrs/ 75°F
Surface appearance after application	None

LIMITATIONS/PRECAUTIONS

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

Do not over apply. Substrates should be saturated with material, but puddling should be avoided. Do not apply if precipitation is expected within four hours, or if rain has preceded the application in the past 24 hours.

SPECSILANE 40 WB is not formulated for below grade waterproofing. Not effective for some stone surfaces. Over-application may cause a slight darkening, or residual tackiness of the surface. Do not apply in high winds. Do not dilute.

Wear protective gloves and goggles. Avoid prolonged skin contact. Allow NO contact with food stuffs. Please refer to the safety data sheet (SDS) for more detailed information.

SHELF LIFE

Containers are to be sealed and stored in a clean, dry area between 45-85°F (6-29°C). Keep from freezing. Shelf life is one year in unopened containers.

TECHNICAL SERVICES

For assistance, contact technical services at:
866-791-8700 913-371-8700
www.specchem.com

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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