

# SPEC SILANE 100



100% solids VOC compliant penetrating silane sealer

## DESCRIPTION

SPEC SILANE 100 is a 100% solids, 100% reactive, silane sealer. This clear, penetrating, breathable water repellent is designed for use on interior and exterior above grade concrete or masonry surfaces. SPEC SILANE 100 penetrates the surface and bonds directly with the substrate, which results in a surface that is highly resistant to both moisture and salt.

SPEC SILANE 100 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
- Fast-drying in cooler temperature
- 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: 125-150 ft<sup>2</sup>/gal
- Broom finish: 200-300 ft<sup>2</sup>/gal
- Smooth concrete: 200-350 ft<sup>2</sup>/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 contaminants. Substrates must be absorptive to allow penetration of the SPEC SILANE 100. All joint sealant, caulks and patching should be in place before applying.

**HORIZONTAL SURFACES:** Flood surfaces SpecSilane 100 using a low pressure sprayer (airless sprayer 10 to 20 psi), roller, brush or broom. Broom or squeegee around for even distribution. Let the surface absorb the SPEC SILANE 100. Extremely porous surface may require two coats if applied on a "wet on wet" procedure. Distribute any puddles or free standing material.

**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 SPEC SILANE 100.

## TECHNICAL DATA

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

Composition	Organofunctional Silane
Active Silane Content	100% by weight
VOC Content (EPA Method 24)	Less than 250 grams/liter
Flash Point (ASTM D3278-82)	140°F (TCC)
Specific Gravity -25°	0.92
Average Depth Penetration (AASHTO T259 and T260)	Less than 0.28" (7 mm) depending upon substrate
Water Absorption Test (ASTM C642-82) (OK. DOT. STD.)	0.324%/ 48hrs. 1.0 %/ 50 days
Scaling Resistance Test (ASTM C672-84) (Non-air-entrained Concrete)	0 rating "No Scaling"

### NCHRP 244

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

Water weight gain	91% reduction-exceed criteria
Absorbed Chloride	96% reduction-exceed criteria
NCHRP 244 Series IV Southern climate- Exposure Test Absorbed Chloride	93% reduction-exceed criteria
Alberta Transportation and Utility Procedure (ATST2a) Water Repellant performance	90.9%
Moisture vapor transmission rate (OHD-L-35)	101.7%
Drying time under normal conditions	2.0 hrs/ 75°F
Surface appearance after application	None



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## PACKAGING

55 gallon drums  
5 gallon pails

## SHELF LIFE

Containers are to be sealed and stored in a clean, dry area between 45-85°F (6-29°C). Shelf life is 12-months in unopened containers.

## LIMITATIONS/PRECAUTIONS

Combustible liquid. Keep Away from Open Flame. Not suitable for asphaltic surfaces. Protect glass, metal and other non-masonry surfaces from over spray. Do not use if air, product or surface temperatures are below 20°F (-6°C) or above 90°F (32°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.

SPEC SILANE 100 is not formulated for below grade waterproofing. Not effective for some stone surfaces. Over-application may cause a slight darkening 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.

**DO NOT EXPOSE TO OR APPLY NEAR FIRE OR FLAMES. FOR WELL VENTILATED OR EXTERIOR USE ONLY!**

## 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.

## TECHNICAL SERVICES

For assistance, contact technical services at:  
866-791-8700 913-371-8700  
[www.specchemllc.com](http://www.specchemllc.com)



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