

SilaneSeal 40



SilaneSeal 40 is a clear, penetrating, breathable water repellent for use on exterior above-grade concrete, brick masonry, concrete masonry units and some natural stones. SilaneSeal 40 will penetrate into the surface and will bond chemically to the substrate, resulting in permanent attachment of the water repellent molecule. SilaneSeal 40 is not a coating and as a result will not discolor or change the surface appearance in any way. By reducing the amount of water entering the substrate, SilaneSeal 40 will reduce the intrusion of waterborne contaminants such as deicing chemicals, salt, and dirt and will reduce the deteriorating effects of these contaminants, such as rebar corrosion, spalling, scaling, efflorescence, leaching and staining.

ADVANTAGES

- ✓ *SilaneSeal 40 is an isobutyltrialkoxysilane in an alcohol carrier.*
- ✓ *Deep penetration into the substrate*
- ✓ *No window masking needed*
- ✓ *Meets all Federal EPA VOC Laws*
- ✓ *Ideal for concrete, masonry, & stone*
- ✓ *High resistance to rain*
- ✓ *Excellent resistance to chloride ion ingress*
- ✓ *100% moisture vapor transmission*
- ✓ *Reduced efflorescence*
- ✓ *Resistant to alkali attack*
- ✓ *No change in surface appearance*
- ✓ *Long service life*

PACKAGING

- ✓ *5.00 gallon pail*
- ✓ *51.00 gallon drum*
- ✓ *255.00 gallon tote*

USES

- ✓ *Corrosion protection*
- ✓ *Protects against wind-driven rain*
- ✓ *Deicing salt protection*
- ✓ *Scaling reduction*
- ✓ *Highways*
- ✓ *Parking decks*
- ✓ *Brick Masonry*
- ✓ *Airport runways*
- ✓ *Concrete masonry units (CMU)*
- ✓ *Some natural stones*
- ✓ *Helps to prevent staining*
- ✓ *Reduces the effects of mildew & efflorescence*
- ✓ *Water repellency*
- ✓ *Resists wheel & heavy loads*

SilaneSeal 40 PHYSICAL DATA

Color	Water White
Active Substance	isobutyltrialkoxysilane
Active Content	>50% by weight
Solvent	Denatured Ethyl Alcohol
Flash Point	54°F
Density	7.0 lbs./gallon
VOC Content	590 grams/liter
HDT	110°F

TEST METHODS

TEST RESULTS

NCHRP #244 @ 200 ft²/gl. Percent Reduction in Chloride Absorption Series II Series II Series IV	86% 87% 99%
Deicer Scaling (ASTM C-672) 100 Cycles	0+ Rating in Non-Air-En- trained Concrete
Skid Resistance (ASTM E303) Dry Surface Wet Surface	No Change No Change
Alberta DOT Penetrating Sealers, Type 1b Initial Water Repellency 84.3% After Abrasion 85.1%	84.3% 85.1%
Water Permeance of Masonry (ASTM E-514) Untreated Leakage Treated Leakage Reduction in Leakage	5.5 l/hr (1.5 gl/hr) 0.0 l/hr (0.0 gl/hr) 100%
Water Absorption of Brick (ASTM C-67) 24 Hours 5 Days	98% effective 91% effective
Water Vapor Transmission (ASTM D-1653) 75.8 g/ft ² /24 Hours	100% breathable