

# SilaneSeal 100



**SilaneSeal 100** is a free-flowing, clear, frost-resistant, 100% solids, and solvent-free reactive silane sealer. SilaneSeal 100 will penetrate into the substrate and will chemically bond with the siliceous materials to form a permanent attachment of the water repellent molecule. This creates a deep hydrophobic layer that will prevent the ingress of water, deicing salts, and other contaminants that will cause premature deterioration of the substrate. SilaneSeal 100 will evenly penetrate into the substrate to provide a consistent level of protection, which will result in a longer treatment life on wearing surfaces.

## ADVANTAGES

- ✓ Excellent resistance to chloride ion ingress
- ✓ 100% moisture vapor transmission
- ✓ Mitigation of AAR & ASR deterioration
- ✓ Deep penetration into substrate
- ✓ No change in surface appearance
- ✓ No change in surface friction after application
- ✓ High resistance to alkali attack
- ✓ Long service life
- ✓ Excellent performance on wearing surfaces
- ✓ Rapid dry time of just 1 hour at 70°F
- ✓ Will not inhibit adhesion of paints and line striping

## PACKAGING

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

## USES

- ✓ GFRP and high-strength concrete.
- ✓ Cast-in-place concrete
- ✓ Precast and pre-stressed concrete
- ✓ For use on low-porosity surfaces
- ✓ Protects the reinforcing steel from corrosion
- ✓ To alleviate alkali-silica reactivity (ASR)
- ✓ Heavy-traffic wearing surfaces
- ✓ Areas that receive high salt concentrations (piers, coastal buildings)
- ✓ Provides a high-performance, long-lasting chloride screen

## SilaneSeal 100 PHYSICAL DATA

|                  |                     |
|------------------|---------------------|
| Color            | Water White         |
| Odor             | Fruity              |
| Active Substance | 100% Isobutylalcoxy |
| Solvent          | None                |
| Flash Point      | 103°F               |
| Density          | 7.8 lbs./gal.       |
| VOC Content      | 340 g/l             |

## TEST METHODS

## TEST RESULTS

|   |                         |
|---|-------------------------|
| <b>NCHRP #244 Series II</b><br>Reduction in Water Absorption @ 150 ft <sup>2</sup> /gal     | 88%                     |
| <b>NCHRP #244 Series II</b><br>Reduction in Chloride Ion Ingress @ 150 ft <sup>2</sup> /gal | 88%                     |
| <b>NCHRP #244 Series IV</b><br>Reduction in Chloride Ion @ 150 ft <sup>2</sup> /gal         | 99%                     |
| <b>Water Absorption of Concrete (ASTM C-642)</b><br>24 hours<br>48 Hours<br>50 Days         | 0.09%<br>0.11%<br>0.34% |
| <b>Deicer Scaling (ASTM C-672)</b><br>100 Cycles 0 Rating<br>(non-air-entrained concrete)   | 100 Cycles 0 Rating     |
| <b>90 Day Salt Ponding (AASHTO T259)</b><br>Non Abraded Specimen                            | 1/2" to 1"0             |
| <b>Water Absorption of Concrete (ASTM D-6489)</b><br>48 hours                               | 97% Reduction           |
| <b>Penetration, OHD L-40</b><br>Concrete 0.42 w/c ratio                                     | 3/8 - 1/2"              |