

Iso-Flex® 618-100 Corrosion Reducing Sealer

PRODUCT DESCRIPTION

Iso-Flex 618-100 Corrosion Reducing Sealer is a clear, penetrating, breathable 100% alkylalkoxy silane sealer. It is specifically developed to protect new and existing concrete structures against the damaging effects of moisture intrusion, freeze/thaw scaling, and, most importantly, chloride-ion (salt) intrusion. The design of this system ensures that the protection provided is not simply on the surface, but deep within the substrate, sometimes as much as 3/4". Our unique 100% silane system chemically reacts with the substrate to form a hydrophilic barrier deep within the surface.

BASIC USES

The Iso-Flex 618-100 CRS is used to seal, protect and reduce corrosion in concrete and masonry from damage caused by water, chloride-ions, acids and freeze/thaw cycles. This product can successfully be used on parking structures, stadiums, plazas, bridges and other types of concrete or masonry structures.

ADVANTAGES

- Reduces active corrosion in reinforced concrete structures.
- The deep penetrating action of the Iso-Flex 618-100 CRS allows the protective layer to be deep within the pores of the concrete, safely protected from damaging abrasion caused by vehicular traffic, snow plows, or pedestrian traffic.
- The silane, once it penetrates the substrate, chemically reacts within the pores of the surface, thereby providing long lasting water-repellent protection to poured in place, precast, and prestressed concrete.
- This Corrosion Reducing Sealer is specifically designed to be breathable.
- Reduces the effect of water on alkali-silica reactivity.

LIMITATIONS

- Performance of the Iso-Flex 618-100 Corrosion Reducing Sealer is closely tied to preparation of the substrate to be treated.

PACKAGING

Iso-Flex 618-100 CRS is available in 5 gallon and 55 gallon units.

TECHNICAL DATA FROM LABORATORY TESTS

(Field Properties May Vary)

Property	Test Method	Results
VOC	ASTM D5095	<400 g/l
Weight per gallon	ASTM D1475	7.49 lbs/gal.
Freeze/Thaw Resistance	ASTM C 672 100 cycles	0 + or Less than 1 rating
Average Depth of Penetration	—	0.15" - .5"
Flash Point	SETA	Greater than 62°C
Rapid Determination of Chloride Permeability of Concrete	AASHTO T277	98% Improvement
Alberta DOT	Type 1c	87.2% effective after multiple abrasions
Water Absorption	NCHRP 244 Series II	88% min. compared to untreated control
Chloride Absorption	NCHRP 244 Series II	87% min. compared to untreated control
Chloride Absorption	NCHRP 244 Series IV	99% min. compared to untreated control

INSTALLATION

Preliminary: Test a small area of the surface before starting general application to establish coverage rates, determine any aesthetic change, and assure desired results.

Preparation: New concrete surfaces to be treated shall be cleaned of all laitance, construction dust and cure materials prior to application. Existing concrete surfaces should be thoroughly cleaned to remove any materials that will inhibit the penetration of the sealer. This may be done by water blasting, sandblasting or shot blasting the surface. Crack control, caulking, patching and expansion joint installation can be done prior to or following the application of the sealer. If this material is to come in contact with a silicone sealant, do not allow the sealer to puddle long term on the silicone sealant otherwise the sealant may show signs of swelling.

Installation: Prior to beginning, surfaces to be treated must be clean and dry. Surface, air and material temperatures should be 20°F-100°F during application. Do not apply Iso-Flex 618-100 when temperatures are expected to fall below 20°F within 7 hours. It is recommended to avoid rain for 4 hours following the application. Apply Iso-Flex 618-100 on horizontal surfaces in a flooding action using a low-pressure spray. Normal coverage rates are 200ft²-400 ft²/gallon. For application on a vertical surface, apply Iso-Flex 618-100 to saturation with a low-pressure sprayer. Start at the bottom of the wall and work up. Allow to fully dry prior to opening to traffic. Painting of line stripes should be done prior to application of the sealer.

PRECAUTIONS

To ensure safe installation of Iso-Flex 618-100 CRS sealer, please refer to the Material Data Safety Sheet for detailed health and safety information prior to use.

MAINTENANCE

Iso-Flex 618-100 Corrosion Reducing Sealer requires no maintenance while in service. It is always a good idea to provide horizontal concrete surfaces a twice a year fresh water wash down to remove any surface contaminants.

WARRANTY

LymTal warrants that its products are manufactured free of defects and conform to the technical data listed. Under this warranty we will replace, at no charge, any material proven defective when applied in accordance with our written instructions for applications recommended by us as suitable for subject product. LymTal shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of the product.

Revised: 1/15

LymTal International, Inc.

4150 South Lapeer Road • Lake Orion, MI 48359 • Tel (248) 373-8100 • Fax (248) 373-3480 • www.lymtal.com