

Iso-Flex® 618-40 W.B.

PRODUCT DESCRIPTION

Iso-Flex 618-40 W.B. is a V.O.C. compliant, clear, penetrating, breathable 40% water-based silane sealer emulsion. The sealer is composed of a concentrate alkylalkoxy silane emulsion in water diluted at the jobsite. Iso-Flex 618-40 W.B. is specifically developed to protect new and existing concrete structures against the damaging effects of moisture intrusion, freeze/thaw scaling, and chloride-ion (salt) intrusion.

BASIC USES

The Iso-Flex 618-40 W.B. is used to seal and protect new and existing horizontal or vertical concrete and masonry from damage caused by water, chloride-ions, acids and freeze/thaw cycles. This product can successfully be used on bridges, parking structures, stadiums, plazas and other types of concrete structures.

ADVANTAGES

- Iso-Flex 618-40 W.B. is VOC compliant.
- Iso-Flex 618-40 W.B. is 100% breathable.
- The active silane penetrates deep into the substrate and chemically reacts within the pores of the surface creating a layer of protection that isn't affected by abrasion caused by vehicular traffic.
- Iso-Flex 618-40 W.B. will protect poured in place, precast, GFRC and prestressed concrete surfaces.
- Iso-Flex 618-40 W.B. does not normally alter the appearance of the substrate.

LIMITATIONS

- Performance of the Iso-Flex 618-40 W.B. is closely tied to preparation of the substrate to be treated.

PACKAGING

Iso-Flex 618-40 W.B. is available in short filled 5 gallon and 55 gallon units that are diluted at the job-site.

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.

TECHNICAL DATA FROM LABORATORY TESTS (Field Properties May Vary)		
Property	Test Method	Results
VOC	ASTM D5095	<350 g/l
Weight per gallon	ASTM D1475	7.99 lbs/gal.
Average Depth of Penetration	—	0.24"
Flash Point	SETA	Greater than 100°C (212°F)
Surface Appearance after Application	—	Unchanged
Water Absorption	Alberta Type 1b	89% effective after abrasion
Water Absorption	NCHRP 244 Series II	83% min compared to control
Chloride Absorption	NCHRP 244 Series II	83% min compared to control
Southern Climate Exposure Test	NCHRP 244 Series IV	100% reduction compared to control

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.

Installation: Prior to beginning, surfaces to be treated must be clean and dry. Surface, air and material temperatures should be 40°F-120°F during application. Do not apply Iso-Flex 618-40 W.B. when temperatures are expected to fall below 35°F within 8 hours. It is recommended to avoid rain for 4 hours following the application.

Premix the Iso-Flex 618-40 W.B. silane concentrate for about 1 minute. Add clean, fresh water to the concentrate at the appropriate rate for the unit size and mix until thoroughly blended.

Apply Iso-Flex 618-40 W.B. on horizontal surfaces in a flooding action using a low-pressure spray. Normal coverage rates are 125ft²-200 ft²/gallon. Allow to fully dry prior to opening to traffic. Painting of line stripes should be done following the application of the sealer. For application on a vertical surface, apply Iso-Flex 618-40 W.B. to saturation with a low-pressure sprayer. Start at the bottom of the wall and work up.

MAINTENANCE

Iso-Flex 618-40 W.B. requires no maintenance while in service. It is always a good idea to wash treated surfaces twice a year with fresh water to remove any surface contaminants.

PRECAUTIONS

Once mixed the pot life will be 4 hours. Discard any material that is not used within the pot life. To ensure safe installation of Iso-Flex 618-40 W.B. sealer, please refer to the Material Data Safety Sheet for detailed health and safety information prior to use.

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.

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LymTal International, Inc.

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