

Iso-Flex® 618-VOC *Water Dispersible Silane Sealer*

PRODUCT DESCRIPTION

Iso-Flex 618-VOC is a V.O.C. compliant, low odor, clear, penetrating silane sealer. After the concentrate is dispersed in water, it is used to treat concrete, masonry and other natural stone surfaces. Iso-Flex 618-VOC chemically bonds with the substrate and provides protection against water, chlorides and other water borne contaminants.

BASIC USES

Iso-Flex 618-VOC is used to protect and preserve concrete in parking decks (precast and cast-in-place), stadiums, plazas, and bridge decks as well as vertical surfaces such as masonry, precast concrete, stucco, and many natural stones.

ADVANTAGES

- Iso-Flex 618-VOC is water dispersible (no solvents) and V.O.C. compliant.
- Iso-Flex 618-VOC reacts immediately with concrete or masonry surfaces eliminating problems of evaporation loss or rain exposure after application.
- The silane molecule chemically bonds with the concrete substrate, forming a hydrophobic surface that does not affect water vapor permeability.
- Iso-Flex 618-VOC does not alter the natural appearance of the substrate.
- Iso-Flex 618-VOC wears well under wheel traffic.
- Iso-Flex 618-VOC is easy to handle with metered spray equipment.
- Iso-Flex 618-VOC provides protection against moisture and moisture borne chloride ions which cause corrosion of reinforcing steel, delamination of concrete, and surface scaling.
- Surfaces treated with Iso-Flex 618-VOC can be opened to traffic as soon as they are dry.

TECHNICAL DATA FROM LABORATORY TESTS

(Field Properties May Vary)

Property	Test Method	Vertical Application	Horizontal Application
Dispersion Rate in Water	—	9:1	6:1
Dispersion Medium	—	Water	Water
VOC	ASTM D5095-90	<350 g/l	<350 g/l
Drying Time @70° F 50% R.H.	—	30-50 min	30-50 min
Reduction in Water Weight Gain	NCHRP 244 Series II	81%	92%
Reduction in Absorbed Chloride	NCHRP 244 Series II	94%	95%
Moisture Vapor Permeability	NCHRP 244	100%	100%
Water Screening Water Weight Gain	Alberta Transportation Test	91.1%	91.4%
Water Screening After Abrasion	Alberta Transportation Test	88%	87.5%
Alkali Resistance After Abrasion	Alberta Transportation Test	89.7%	89.6%
Depth of Penetration	NCHRP 244 Series II	0.19 in	.21 in
Color	—	clear to amber	clear to amber
Freeze Thaw Scaling Resistance□	ASTM C672	Passes	Passes

LIMITATIONS

- Iso-Flex 618-VOC is designed to supplement, not replace, the weathering characteristics of a durable concrete surface. Best results will be obtained when applied to concrete surfaces proportioned, placed and finished in accordance with standards defined in The American Concrete Institute's Committee Report 201.2R-92: **Guide to Durable Concrete**.
- Do not apply Iso-Flex 618-VOC below 40°F (5°C) without written approval or when surfaces are wet, frost covered, or frozen.
- Curing agents, mold releases or other contaminants may adversely affect sealer performance.
- Glass, metal, etc. as well as plants and vegetation should be protected from overspray.

PACKAGING

Iso-Flex 618-VOC is available in one gallon and 5 gallon containers.

INSTALLATION

- Iso-Flex 618-VOC silane sealer should be applied to clean, dry, and sound substrates. Remove dirt, dust, oil, grease, curing compounds, coatings and other surface contaminants. Waterblasting, sandblasting or shotblasting may be required to provide necessary surface preparation.
- Spray Iso-Flex 618-VOC on surface to be treated at the desired dispersion rate in water using LT Spray Gun or LT Spray Bar equipment. Contact your local Iso-Flex representative or LymTal International for details.
- Apply dispersed sealer in one application to saturation. Avoid excessive puddling. Follow spray application with broom or roller for even distribution if necessary.

- Application rates will vary with type of substrate and surface condition. Typical coverage rate on horizontal concrete surfaces is 125-200ft²/gallon and on vertical surfaces 175-250ft²/gallon.
- Clean application equipment with water. Seal partially used containers to protect from contamination by water or other foreign substances.

PRECAUTIONS

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

MAINTENANCE

Surfaces sealed with Iso-Flex 618-VOC can be resealed as required. Contact manufacturer for recommended surface preparation and coverage rates.

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.

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