

Iso-Flex® 618-40 VOC Silane Sealer

PRODUCT DESCRIPTION

Iso-Flex 618-40 VOC is a one-component, hydrophobic, silane, penetrating sealer for horizontal or vertical concrete, available in a 40% concentration. Iso-Flex 618-40 VOC sealer weatherproofs concrete and masonry surfaces without altering the natural surface appearance and texture. Iso-Flex 618-40 VOC reacts chemically with the concrete substrate to form a surface that is repellent to water while remaining permeable to water vapor.

BASIC USES

Iso-Flex 618-40 VOC is used to protect and preserve concrete by providing a hydrophobic barrier against the infiltration of water and salt, which may lead to concrete deterioration.

ADVANTAGES

- The Iso-Flex 618-40 VOC silane sealer molecule is very small and is dissolved in a highly mobile, water miscible solvent which can enter even the smallest concrete pore.
- The silane molecule chemically bonds with the concrete substrate, forming a hydrophobic surface which is not a barrier to water vapor, yet is resistant to penetration of liquid water and water borne contaminants.
- The sealer does not alter the natural appearance or texture of the concrete surface.
- Iso-Flex 618-40 VOC wears well under wheel traffic.
- Iso-Flex 618-40 VOC provides additional protection against moisture and moisture borne chloride ions which cause corrosion of reinforcing steel and resultant delamination of concrete.

LIMITATIONS

- Iso-Flex 618-40 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.**

- Install above 40°F. For lower temperatures, please consult manufacturer for specific recommendations.

| TECHNICAL DATA FROM LABORATORY TESTS | | |
|---|--|---|
| (Field Properties May Vary) | | |
| Property | Test Method | Results |
| VOC | — | 595 g/l |
| Solvent | — | Isopropanol |
| Specific Gravity @ 75°F | ASTM D1475 | 0.82 |
| Weight per gallon | ASTM D1475 | 6.8 lbs/gal. |
| Color | — | Clear |
| Flash Point | ASTM D56 | 56°F |
| Test Application Rate | | 175 ft ² /gallon |
| Water Absorption | NCHRP #244 Series II Cube Test | 88% More Effective Than Untreated Control |
| Chloride Absorption | NCHRP #244 Series II Cube Test | 95% More Effective Than Untreated Control |
| Chloride Absorption | NCHRP #244 Series IV Cube Test | 99% More Effective Than Untreated Control |
| Freeze-Thaw Resistance | ASTM C672-76 50 Cycles | No Scaling |
| Alberta Test Procedure Type 1b | Waterproofing Performance after abrasion | 88% effective |

PACKAGING

Iso-Flex 618-40 VOC is available in 5 gallon and 55 gallon units. Fugitive dye available in pint containers.

INSTALLATION

Iso-Flex 618-40 VOC silane based sealer should be applied to clean, sound substrate. Oily films should be removed prior to application.

The product may be sprayed, brushed or rolled into the concrete surface. Clean application equipment with cleaning solvents as recommended by the manufacturer.

Application rates will vary with the type and condition of substrate. Typical coverage rates on horizontal concrete surfaces 125-200 ft²/gal. and on vertical surfaces 175-250 ft²/gal.

PRECAUTIONS

Iso-Flex 618-40 VOC contains flammable solvents. Extra precautions should be taken in confined areas. Never allow open flame or sparks in areas where Iso-Flex 618-40 VOC is being used. Use product with adequate ventilation and personal protection. Refer to Material Data Safety Sheet for detailed health and safety information prior to use.

MAINTENANCE

Concrete surfaces sealed with Iso-Flex 618-40 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.

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