

# ISO-FLEX® 618

## Silane sealer

### DESCRIPTION:

ISO-FLEX® 618 silane sealer is a one-part hydrophobic silane penetrating sealer for concrete, available as either a 40% or 20% concentration. ISO-FLEX 618 silane sealer protects concrete and masonry surfaces from water penetration without altering the natural surface appearance and texture. ISO-FLEX 618 silane sealer reacts chemically with the concrete structure to form a surface repellent to liquid while remaining permeable to water vapor.

### PACKAGING:

ISO-FLEX 618 silane sealer is available in 5 gallon (18.9 liter) and 55 gallon (208.2 liter) units.

### BASIC USE:

ISO-FLEX 618 silane sealer 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:

- Small molecular size dissolves in a highly mobile, water miscible solvent that 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.
- Does not alter the natural appearance or texture of the concrete surface.
- Wears well under wheel traffic.
- Easy to apply to any clean concrete surface.
- 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 silane sealer is designed to supplement, not replace, the weathering characteristics of durable concrete surfaces.
- Best results will be obtained when applied to concrete surfaces proportioned, placed and finished in accordance with standards defined in ACI Committee Report 201.2R-92: "Guide to Durable Concrete".
- Apply above 40 degrees F (4.4 degrees C).

### TECHNICAL DATA:

(Field Properties May Vary)

<b>Property &amp; Test Method</b>	<b>40% Test Results</b>	<b>20% Test Results</b>
<b>Solvent</b> —	Isopropanol	Isopropanol
<b>Specific Gravity</b> <i>ASTM D1475</i> @ 75°F (23.9 degrees C)	0.84	0.81
<b>Weight per Gallon</b> <i>ASTM D1475</i>	7.0 lbs/gal	6.7 lbs/gal
<b>Flash Point</b> <i>ASTM D56</i>	56°F (13.3°C)	56°F (13.3°C)
<b>Color</b> —	Clear	Clear
<b>Freeze/Thaw</b> <i>ASTM C672-76</i> 50 cycles	No Scaling	No Scaling
<b>Water Absorption</b> <i>NCHRP #244</i> (Series II Cube Test)	88% more effective than control	86% more effective than control
<b>Chloride Absorption</b> <i>NCHRP #244</i> (Series II Cube Test)	95% more effective than control	93% more effective than control
<b>Chloride Absorption</b> <i>NCHRP #244</i> (Southern Exposure)	99% more effective than control	99% more effective than control
<b>Shelf Life</b> @ 75 degrees F (23.9 degrees C) —	1 year	1 year
<b>Test Application Rate</b> —	125 ft²/gal	125 ft²/gal

### NOTE:

TECHNICAL DATA, shown above, is based on performance of new material only. Once applied, material properties are likely to be affected over time due to environmental factors such as aggressive UV exposure or extreme temperatures.

## PRECAUTIONS:

ISO-FLEX 618 silane sealer contains combustible solvents and extra precautions should be taken in confined areas. Never allow open flame or sparks in areas where ISO-FLEX 618 silane sealer is being used. Use product with adequate ventilation and personal protection. Refer to the Material Safety Data Sheet (MSDS) for detailed health and safety information prior to use.

## INSTALLATION:

ISO-FLEX 618 silane sealer should be applied to clean, dry, sound concrete surfaces. Oily films should be removed prior to application.

ISO-FLEX 618 silane sealer may be sprayed, brushed or rolled into the concrete surface. It is recommended that application equipment is cleaned with solvents.

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