

MASTERSEAL® SL

Silane penetrating sealer

DESCRIPTION:

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

RECOMMENDED FOR:

MASTERSEAL SL 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.

FEATURES/BENEFITS:

- 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.

PACKAGING/ESTIMATING:

MASTERSEAL SL silane sealer is available in 5 gallon (18.9 liter) and 55 gallon (208.2 liter) units. Coverage rates are approximately 125 ft²/gal.

PERFORMANCE DATA¹:

(Field Properties May Vary)

Property & Test Method	40% Test Results	20% Test Results
Solvent	Isopropanol	Isopropanol
Specific Gravity @ 75 °F(24 °C) (ASTM D1475)	0.84	0.81
Weight per Gallon (ASTM D1475)	7.0 lb/gal	6.7 lb/gal
Flash Point (ASTM D56)	56 °F (13 °C)	56 °F (13 °C)
Color	Clear	Clear
Freeze/Thaw, 50 cycles (ASTM C672-76)	No Scaling	No Scaling
Water Absorption (NCHRP #244 – Series II Cube Test)	88% more effective than control	86% more effective than control
Chloride Absorption (NCHRP #244 – Series II Cube Test)	95% more effective than control	93% more effective than control
Chloride Absorption (NCHRP #244 – Southern Exposure)	99% more effective than control	99% more effective than control
Shelf Life @ 75 °F (24 °C)	1 year	1 year

¹ 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.

APPLICATION:

MASTERSEAL SL silane sealer should be applied to clean, dry, sound concrete surfaces. Oily films should be removed prior to application.

MASTERSEAL SL silane sealer may be sprayed, brushed or rolled into the concrete surface. It is recommended that application equipment is cleaned with solvents.

LIMITATIONS:

- MASTERSEAL SL 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 °F (4 °C).
- MASTERSEAL SL silane sealer contains combustible solvents and extra precautions should be taken in confined areas.
- Never allow open flame or sparks in areas where MASTERSEAL SL 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.

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