

SILOXANE/SILANE 10% WB

PENETRATING WATER REPELLENT

PURPOSE

SILOXANE/SILANE 10% WB penetrates into concrete or masonry to provide long term weatherproofing protection.

SILOXANE/SILANE 10% WB forms a chemically bonded protective barrier within the concrete. The reacted product resists the intrusion of salt and water, yet allows water vapor to pass through the treated surface. This reduces the damaging effects of moisture penetration and corrosion of reinforcing steel in concrete.

SILOXANE/SILANE 10% WB is used to protect and maintain buildings, airports, driveways and other concrete and masonry structures.

DESCRIPTION

SILOXANE/SILANE 10% WB is a micro-emulsion of silane and oligomeric alkoxysiloxane. Evaporation is slow, allowing thorough penetration of the product.

SILOXANE/SILANE 10% WB exhibits good water repellence in only a few hours. Sprinkling a few drops of water on the concrete is an easy way to check the application, water drops should "bead" to indicate protection. The complete chemical reaction will take 3-5 days.

PACKAGING

SILOXANE/SILANE 10% WB is packaged in 275 gallon (1040.9 L) totes, 55 gallon (208.2 L) drums and 5 gallon (18.9 L) pails.

STANDARDS

Testing and performance evaluations have proven that SILOXANE/SILANE 10% WB is superior to methacrylates, stearates, siliconates, silicates, urethanes, butadienes and many other coating systems for water repellency in most applications.

SILOXANE/SILANE 10% WB meets V.O.C. emission requirements for waterproofing sealers and treatments (EPA limit 600 g/L).

SILOXANE/SILANE 10% WB meets V.O.C. compliance for the State of California, Regulation 8, Organic Compounds, Rule 3, Arch Coatings (CA limit 350 g/L).

PROPERTIES

Water Penetration through Masonry (ASTM-E-514) w/ simulated wind-driven rain at 62.5 mph (100.6 kph)

- Average Reduction in Leakage Rate - 83%

N.C.H.R.P. Report 244 Series 2

- 77% Reduction in Chloride Ion Content
- Vapor Transmission - Excellent - no moisture retained after 21 days

APPLICATION

Storage: Containers should be tightly closed and properly stored. Prevent accumulation of water, dirt or other residue on covers. Protect from freezing.

Preparation: All concrete surfaces should be clean and 28 days old prior to application of SILOXANE/SILANE 10% WB. For applications prior to 28 days, consult Symons technical service. Surfaces to be treated must absorb the material. SILOXANE/SILANE 10% WB is only effective when the material is able to penetrate into the concrete surface.

To determine the surface absorption characteristics, observe the rate at which a small drop of SILOXANE/SILANE 10% WB penetrates the surface. It should begin to penetrate immediately and be absorbed within a few minutes if the surface is sufficiently clean and dry.

Methods: SILOXANE/SILANE 10% WB should be applied at a low pressure with industrial pump-up sprayers. All spray equipment should be fitted with fan spray nozzles.

Horizontal concrete surface applications should be completely saturated so the surface remains wet for a few minutes. Any puddles or pools should be broomed into the surface. The surface of the concrete will appear dry when the material has completely penetrated.

Vertical concrete surface applications should start at the bottom of the structure, have overlapping spray patterns and "run" about 6 inches before soaking in. For porous vertical surfaces, spray two wet-on-wet applications. Do not apply material in winds over 15 mph.

Coverage: Spray application is recommended.

Clay brick	100-150 ft ² /gal	(2.5-3.7 m ² /L)
Cast-in-place	80-150 ft ² /gal	(2.0-3.7 m ² /L)
Precast	125-150 ft ² /gal	(3.0-3.7 m ² /L)
Exposed Agg	100-150 ft ² /gal	(2.5-3.7 m ² /L)
Stucco	100-150 ft ² /gal	(2.5-3.7 m ² /L)
Rough stone	100-150 ft ² /gal	(2.5-3.7 m ² /L)
Smooth stone	150-175 ft ² /gal	(3.7-4.3 m ² /L)
Glazed brick	150-175 ft ² /gal	(3.7-4.3 m ² /L)
Concrete block	60-90 ft ² /gal	(1.5-2.3 m ² /L)

Concrete surface texture and absorption characteristics will dictate final coverage rates.

Unusual applications or conditions may require the technical assistance of a Symons representative.

DRY TIME

The milky white product will dry to a transparent film in approximately 1-2 hours at 70°F (21°C).

CLEAN-UP

Use soapy water to clean tools and equipment, then rinse thoroughly with clean water.

LIMITATIONS

Some darkening is possible depending on concrete finish and porosity. A test patch is always recommended to ensure compatibility and performance.

Do not apply under hydrostatic pressure conditions. Do not apply to wet surfaces.

Protect all surfaces not intended for treatment from overspray.

Do not apply when ambient or surface temperature is below 40°F (4°C), above 100°F (38°C) or on extremely windy days.

SHELF LIFE

Shelf life of SILOXANE/SILANE 10% WB in unopened containers is approximately one year.

PRECAUTIONS

It is mandatory to take the following precautions to protect workers and the public:

1. KEEP OUT OF THE REACH OF CHILDREN.
2. Avoid contact with skin. Protective clothing is recommended. Contact areas should be thoroughly washed with soap and water.
3. Avoid contact with eyes. Protective goggles are recommended in case of splashing. Flush eyes with water if contact occurs.
4. Avoid ingestion of material. If ingestion occurs, contact a poison center or physician.

Additional precautions, safety information and first aid treatments are contained in the Material Safety Data Sheet.

WARRANTY

Symons warrants, for 12 months from the date of manufacture, or for the duration of the published product shelf life, whichever is less, that at the time of shipment by Symons, the product is free of manufacturing defects and conforms to Symons' published specifications in force on the date of acceptance by Symons of the order. Symons shall only be liable under this warranty if the material has been applied, used, and stored in accordance with Symons instructions in this technical data sheet.

The purchaser must examine the product when received and promptly notify Symons in writing of any nonconformity before the product is used, or no later than 30 days after such nonconformity is first discovered. If Symons, in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the nonconforming product, refund the purchase price or issue a credit. This is the sole and exclusive remedy for breach of this warranty.

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Symons shall not be liable, in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injuries), or economic losses of any kind; or for any special, incidental, indirect, consequential, special, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, this Agreement, even if Symons could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this agreement, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.

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