



TECHNICAL DATA SHEET

SILOXA-TEK 8510

An industrial-grade, solvent-based, silane/siloxane engineered to reduce water and moisture intrusion, protect concrete from deicing salts and chlorides, and resist staining from oil and fluids. Siloxa-Tek 8510 is the most innovative product ever formulated. A proprietary blend of silane/siloxanes and a proprietary stain repellent additive, this clear penetrating sealer not only prevents staining, oil penetration, deicing salt and freeze-thaw damage, but its hydrophobic nature resists moisture intrusion and vapor transmission. This is the go to choice to seal any concrete, brick, or masonry based substrate especially driveways, garages and patios.

APPLICATIONS

Exceptional when used for:

- Applications: Driveways/sidewalks, patios, pool decks, garages, chimneys, roof tiles
- Substrates: Concrete, concrete blocks/cinderblocks, brick, pavers, exposed aggregate, stucco, stone, slate, sandstone

BENEFITS

- Excellent staining protection
- Excellent oil resistance
- Water beading effect
- Excellent penetration
- Breathable substrate
- Easy application
- No appearance change
- Low VOCs
- Prevents deicing salt/chloride damage
- Prevents Freeze-thaw damage
- Protects from spalling/pitting/cracking
- Resists mold/mildew growth
- Prevents efflorescence
- Reduces dirt pick up
- Resists water vapor transmission
- Prevents staining from oils, leaves etc.
- Resists automobile oil/fluids
- Resists ASR/alkali attacks
- Reduces water ingress
- Reduces moisture intrusion
- Resists UV radiation

DESCRIPTION

Siloxa-Tek® 8510 is an advanced, high performance, industrial strength solvent based concrete/masonry water and oil repellent solution designed to reduce water and moisture intrusion. This unique formula



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incorporates leading molecular nanotechnology; putting an end to water, oils, fluids and moisture migration through any porous cementitious substrate. Siloxa-Tek® 8510 is a uniquely transparent, blended formula with added enzymes and surfactants that aid in accelerating a penetrating disbursement. Thus eliciting a more effective, uniformed reaction between the formula and the concrete / masonry substrate it's being applied to. Siloxa-Tek® 8510 provides a hydrophobic barrier beneath the surface and seals out moisture while remaining highly vapor permeable and chemically bonding with the substrate. The treated surfaces will show no change in visual appearance from application and the surface that will not chip, flake, delaminate or breakdown with UV light exposure.

HOW IT WORKS

A water repellent impregnating sealer is a surface applied, invisible, non-film forming protection system, that can very effectively increase the durability of concrete. Due to the small size of the mono-molecular layer, there is little or no change in its aesthetic appearance. Compared to film forming coating systems, the surface applied water repellent impregnating sealer penetrates the surface pores and capillaries, so they are internally lined but not filled. Water repellent impregnating sealers change the surface tension of mineral substrates that produce a water repellent surface to keep water and aggressive water-soluble salts, such as chlorides and sulfates, out.

In structures on and below grade water should generally be kept out and away to prevent damage. The most pervasive form of concrete damage is surface scaling from freeze-thaw. Other forms of damage include alkali-silica reaction (ASR), chemical intrusion and corrosion of steel reinforcements. Siloxa-Tek® 8510 can block up to 99% of surface moisture. The active ingredients seal the pores within the substrate adequately blocking surface moisture while still maintaining the concrete's ability to breathe. It will not significantly modify substrate appearance or traction and will only wear away if the concrete surface itself wears away.

New or existing concrete can be treated and performance can be improved in as little as two applications. Backed by a 100-year warranty, Siloxa-Tek® 8510 oil repellent sealer is a small investment that leads to long-term savings and improved performance.

PREPARATION

Avoid contact with skin, eyes and clothing. No respirator is needed when applying this product. Wash hands after use and do not take internally. Please refer to the product Safety Data Sheet (SDS) before using.

The preparation process should be followed to ensure adequate penetration and optimum performance. The concrete substrate must be structurally sound, thoroughly dry and clean. Remove all paints, sealers and/or adhesives before application. The substrate must be clean of oil, grease, dirt, wax, curing compounds, efflorescence and other contaminants that might interfere with the penetration of the sealer. If acid is used to clean the concrete, neutralize the surface completely and rinse it with water prior to application. New concrete must be cured at least 28 days.

APPLICATION

Test the sealer in an inconspicuous area to ensure the desired coverage and appearance is achieved. Make sure the entire surface is completely dry and free of dust, dirt and debris. The surface-zone moisture content of the concrete should not exceed 4 wt%. Cover all surrounding areas not intended to be coated. Stir the material before using. Apply with a roller or brush. Apply until the surface is saturated but not to the point of puddling. Do not over-apply. Apply two coats wet-on-wet to ensure complete coverage.



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APPLICATION NOTES:

- Will not prevent water penetration through structural cracks, defects or open joints.
- Limited initial surface repellency.
- If water-beading effect begins to fade reapply another coat.
- Prevent from getting on glazed and finished surfaces such as glass, aluminum etc. In case of contact flush immediately with water.
- Water repellency may take up to 7 days to develop.

TECHNICAL SPECS

- Feature: Water, salt, oil & stain repellent
- Chemistry: Modified Silane/Siloxane
- Color: Clear
- Finish: Invisible
- Category: Penetrating
- Carrier: Solvent
- Availability: Ready to Use
- Packaging: 1 Gallon, 5 Gallon
- Coverage: 300 sq. ft. per gallon
- Interior/Exterior: Interior/Exterior
- Application Method: Roller, brush
- Application Temperature: 45 F - 90 F
- Number of Coats: 2
- Time Between Coats: 5 Minutes
- Drying Time (dry to touch): 6 Hours
- Drying time (full cure): 24 Hours
- Time before/after rain: 48 Hours
- New Concrete: Yes, at least 28 days after being poured
- Storage/Shelf Life: 1 Year
- Clean up: Mineral Spirits
- Paintable: No
- VOC Content: 300 g/L