

SILOXA-TEK® 8500

Technical Data Sheet

Siloxa-Tek® 8500 is an advanced, high performance, industrial strength water based concrete/masonry water repellent solution designed to reduce water and moisture intrusion. Approved by the Department of Transportation to protect a wide variety of mineral substrates including architectural concrete, concrete block, split face block, pavers, stucco, porous and dense brick, clay tile, exposed aggregate concrete, sandstone, and slate this unique formula incorporates leading molecular nanotechnology; putting an end to water and moisture migration through any porous cementitious substrate. Siloxa-Tek® 8500 is a uniquely transparent, blended formula with added enzymes and surfactants that aide 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® 8500 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.

Recommended Applications

- Concrete blocks, concrete cinderblocks, split-face block
- Driveways, sidewalks, parking garages, roof tiles and parking lots
- Stucco, brick, clay tile, slate, sandstone, pavers, exposed aggregate concrete
- Natural and artificial stone

Advantages

- Prevention from freeze-thaw attack and ASR by preventing the ingress of water.
- Prevents further damage to reinforced concrete by limiting the substrate water content, chloride and other aggressive salts.
- Provides increased protection as a hydrophobic barrier to prevent future penetration of water and soluble aggressive agents through a crack.

- Provides protection from spalling and pitting as a result of aggressive salts and chlorides.
- No change in appearance of the substrate; the treated surface does not become glossy.
- Alkali resistant.
- Freeze-thaw/de-icing salt resistant.
- UV resistant.
- Reduces vapor transmission.
- Water beading (water repellent effect).
- Reduction of dirt pick-up.
- Reduces risk of efflorescence.
- Protection against micro-organism growth
- Effective penetration depth.
- Seals pores and capillaries while remaining breathable.
- Tack free, durable finish.
- No formation of harmful by-products.
- Low VOC's
- Supplied ready to use or ultra concentrated.
- Easy to Apply.
- DOT approved

Technical Information

New Concrete: New concrete must be cured 28 days.

Application Temperature Limits: 45°F to 90°F.

Number of Applications Required: Two coats wet-on-wet.

Amount of Time in Between Coats: 5 minutes.

Coverage:

1 Gallon Siloxa-Tek 8500: 250 sq. ft.

1 Gallon Siloxa-Tek 8500 Ultra Concentrate: 1250 sq. ft.

Drying Time: 24 hours for a full cure.

Painting or Coating Preparation: Do not apply another sealer or coating except multiple coats of this product.

The concrete can be painted 7 days after sealing.

Color: Dries clear.

Sheen: Natural Finish.

Maintenance: Occasional cleaning as needed.

Storage/Shelf Life: Twelve months in an unopened container when stored between 50-80 degrees F.

VOC's: 90 g/L

SILOXA-TEK® 8500

Technical Data Sheet

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.
- Protect surfaces from equipment leaks or other leaks such as oil, hydraulic fluid etc.

Stir the material before using. Apply with a low pressure, high volume pump sprayer, brush or roller. Apply until the surface is saturated but not to the point of puddling. Do not over-apply. If over-spray occurs it should be cleaned and removed immediately after sealing. Apply two coats wet-on-wet to ensure complete coverage. Please note: Siloxa-Tek® 8500 is available ready to use or ultra concentrated. The ultra concentrated solution needs to be reconstituted with water prior to application. 4 parts water to 1 part Siloxa-Tek® 8500.

Precautions

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 Material Data Safety Sheet (MSDS) before using.

Preparation

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.