GHOSTSHIELD[®]



Sections



9 09 35 00 Chemical-Resistant Tiling

SILOXA-TEK® 8510

SUPERCHARGED, ULTRA HIGH ACTIVES STAIN RESISTANT WATER, SALT, & OIL REPELLENT PENETRATING SEALER

Description

A new supercharged, breathable, deep penetrating, clear, oleophobic, water, salt & oil repellent sealer that provides exceptional oil and stain resistance.

Siloxa-Tek® 8510 is a deep penetrating water & oil repellent that protects against watersoluble deleterious materials, oily substances and freeze/thaw cycles. With it's long established hydrophobic agents, oleophobic fluorocarbons and through the latest advances in nanotechnology, its intelligent nano particles provide an extra layer of protection.

Once applied the change of the surface tension creates a surface

environment that is hydrophobic forming an effective shield that aides in a dramatic reduction of chloride ion ingress (salt intrusion).

The proprietary fluorocarbon concurrently resist oil absorption and surface staining from motor oils, grease and other oil based contaminants, forming a clear protective barrier that leaves the concretes appearance completely natural.

Actives

100%*

Appearance/color

Light yellowish (dries clear)

of the **Coverage** surface 150-400 ft²/gallon

*Product actives content varies ±5% (active content >95% - <100%)

Technical Data Sheet

DEPTH OF PENETRATION WATER REPELLENCY AND WEATHERING



Percentage Improvement vs. Control

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TECHNOLOGY // ADVANTAGES

- Composition Nanotechnology supercharged isooctyltriethoxysilane and proprietary fluorocarbon. Its smaller molecular structure allows for deeper penetration increasing performance
- Exceptional waterproofing Penetrates deep within the concrete chemically reacting within the pores and capillaries creating a long-lasting hydrophobic surface that beads water
- Resist staining from oil, grease & food exposure Oleophobic fluorocarbon makes oil and grease easier to clean and remove from treated surfaces decreasing maintenance requirements
- **100% breathable** Non-film forming. Allows moisture within the concrete to escape without adverse effects to the sealer. Does not trap moisture
- Increases abrasion resistant Reduces concrete dusting. Provides ease of maintenance, resist ASR / Alkali attack
- Protects against chloride ion penetration Forms an effective chloride screen dramatically reducing chloride ion ingress preventing deicing salt / chloride damage
- Resist oxidization Inhibits rust and corrosion of rebar in reinforced concrete by limiting substrates water absorption
- Stops moisture intrusion Resists wind-driven rain, prevents freeze-thaw damage, spalling, pitting and cracking.
- Resist atmospheric staining Resists mold, mildew, lichen, efflorescence and dirt pick up
- Department of Transportation approved Meets or exceeds DOT specifications

- Improves durability Prevents capillary uptake of water and the aggressive substances dissolved in it
- Resists freeze thaw and thermal cycling damage
- Natural flat finish Does not change surface appearance, UV stable will not breakdown with light exposure
- Can be applied to cured, honed and polished concrete Ideal for horizontal surfaces exposed to pedestrian and vehicle traffic, compatible with silicate densifiers
- Odorless, excellent for cold weather applications
- Unrivaled industry leading 100 year warranty Penetrates never delaminates, never diffuses, peel or flakes will not discolor yellow or degrade from UV light exposure.
- Excellent penetration depth into any concrete, brick or masonry substrate.

TYPICAL PROPERTIES

Appearance - Slight yellowish tint (dries clear)

Packaging - 1 gallon (3.78 L), 5 gallon (18.9 L) pails and 55 gallon (208 L) drums

VOC'S - 300g/L maximum

Flash Point - 109° F (43° C)

Specific gravity - 0.76 Density - 6.3 lb/gal

Technical Data Sheet

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ASTM E 303

ASTM D 6532

ASTM D 6490

ASTM E 514

through masonry

ASTM D 6532

ASTM C642

ASTM C672

(0.35 w/c ratio)

NCHRP Series II-Cube Test Sections



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TEST METHOD TYPE RESULTS Skid Resistance Troweled Concrete Standard test method for measuring surface friction (BPT). Untreated 90 Treated 90 Water Absorption, % Standard test method for evaluation of clear water repellents Concrete 0.96 on water absorption in concrete. Brick 0.05 Water Vapor Transmission Standard test method for water vapor transmission or non WVT (grains/h/ft²) 2.0 film forming agents Permeance (perms) 4.8 Water Penetration of Masonry,% Reduction Standard test method for water penetration and leakage Dampness 100 Leakage 100 Water Exclusion, % Standard test method for evaluation of clear water repellents Concrete 92 on water absorption in concrete Brick 99 Water Absorption, % Standard test method for density, absorption and voids in 48 hours 0.26 hardened concrete 50 days .70 Scaling resistance rating, non-air-entrained concrete Standard test method for scaling resistance of concrete 100 cycles 0-No scaling surfaces exposed to deicing chemicals Alberta DOT penetrating sealer, Type 1C Water Repellency After Heavy Abrasion, % 84.5 (exceeds criteria) Water Weight Gain, % reduction 250 ft²/gal 95 400 ft²/gal 90

NCHRP Series II-Cube Test

NCHRP Series IV - Southern Climate **Technical Data Sheet**

TESTING DATA

Test results are averages obtained in a controlled environment, material and curing conditions of 75°F and 50%
relative humidity. Reasonable variations should be expected .

98

94

98 (exceeds criteria)

Absorbed Chloride, % reduction

Absorbed Chloride, % reduction

250 ft²/gal

400 ft²/gal

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Applications

- Interior // exterior concrete
- Horizontal // vertical substrates
- Reinforced concrete structures
- Traffic-bearing concrete substrates
- Bridge decks and substructures
- Concrete ramps and barriers
- Parking garages
- Stadiums and buildings
- Concrete driveways, loading docks, public sidewalks, garages and roof tiles.
- Plazas and food courts

Substrates

- Concrete
- Brick and Masonry
- Stucco
- CMU
- Exposed aggregate
- Pavers





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APPLICATION

Surface Prep

1. New "green" concrete must be properly cured. Concrete should obtain 80% of design strength, typically achieved within 14-28 days. 2. The concrete substrate must be structurally sound and clean of oil, grease, dirt, wax, curing compounds, efflorescence, paints, previous sealers, adhesives and other contaminants that might interfere with the penetration of the sealer. Power wash, acid etch or mechanically scarify as necessary to achieve the desired surface condition. Allow for proper dry time before application. May be applied to slightly damp surfaces, although maximum penetration is achieved on dry substrates. Do not apply if standing water is visible.

3. Surface and air temperatures must be at least 35°F during application. Surface and air temperatures should not exceed 95°F. Do not apply when temperatures are expected to fall below 32°F within 8 hours or when rain is expected within 12 hours following application. Keep material from freezing. If freezing conditions exist before application, let the substrate thaw before application. Do not apply during inclement weather or when inclement weather is expected within 12 hours.

4. Crack, patching and expansion joint sealants can be applied before application; always test for compatibility and adhesion.
5. Protect people, property, vehicles, window glass, roofing materials, plastic products, shrubbery, landscaping and all surfaces not set for treatment from overspray.

Application

 Always test a small area before application to ensure desired performance, aesthetics, coverage rates and to verify application technique. Let test area dry thoroughly, 5-7 days, before inspection.
 Stir material throughly before and during application. Do not dilute or alter material for purposes other than specified.

Technical Data Sheet

Application - (continued)

3. Apply with a solvent-resistant roller, brush or low-pressure, nonatomizing sprayer. Apply to saturation letting the first coat penetrate for 5-10 minutes. If applying a second coat, reapply in the same saturating manner wet-on-wet (applying the second coat before the first coat dries). Less material will be needed for the second coat. Roll or broom out any puddles until the sealer penetrates the substrate. If it starts to rain, stop treatment and cover the impregnated areas.

Dry Time

Typical drying time is 4-6 hours at 70°F and 50% relative humidity. Cooler temperatures or higher relative humidity can extend the drying time. Treated surfaces will be ready for pedestrian and vehicle traffic within 24 hours. Water repellency will continue to develop within 7 days of application.

Clean Up

Clean equipment and tools with xylene or mineral spirits. Unused or old material may be disposed of in a waste disposal site in accordance with local, state and federal laws.

Precautions/Safety

Avoid contact with skin, eyes and clothing, do not take internally. Use appropriate safety equipment during application and handling. Please refer to the safety data sheet (SDS) for additional precautionary instructions before use. For medical emergencies only, call ChemTrec (1-800-424-9300).

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APPLICATION

Best Performance (application notes)

- Proper application is the responsibility of the user.
- Will not inhibit water penetration through unsound or cracked surfaces with defective flashing, caulking or structural waterproofing.
- Spills should not be allowed to sit for extended periods of time, clean all spills in a timely manner.
- Make sure the most current versions of product data sheets and safety data sheets are being used.

Coverage:

150 - 400 square feet per gallon (apply at a coverage rate to obtain the desired repellent effect). Variations in texture and porosity of substrate will affect the coverage and performance of the product.

KreteTek Industries Inc. 1000 N West Street Wilmington, DE 19801

www.Ghostshield.com

Customer Service and Technical Support 1-855-KreteTek (1-855-573-8383) Technical Data Sheet

Warranty

KreteTek Industries Inc. warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. KreteTek Industries Inc. makes no other warranty or guarantee, express or implied, including warranties of merchantability or fitness for a particular purpose with respect to its products. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price at the sole option of KreteTek Industries Inc. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. KreteTek Industries Inc. will not be responsible for any special, incidental, consequential (including lost profits) or punitive damaged of any kind.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advise are based on KreteTek Industries Inc. present knowledge and experience. However, KreteTek Industries Inc. assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. KreteTek Industries Inc. reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

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