

Technical Data Sheet

Sections

07 07 19 16
Water Repellents

09 09 35 00
Chemical-Resistant Tiling

SILOXA-TEK® 8510

SUPERCHARGED, SOLVENT-BASED 100% ACTIVES STAIN RESISTANT WATER, SALT, & OIL REPELLENT PENETRATING SEALER

Description

A new supercharged, breathable, deep penetrating, clear, oleophobic, solvent-based 100% active, 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 water-soluble 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)

Coverage

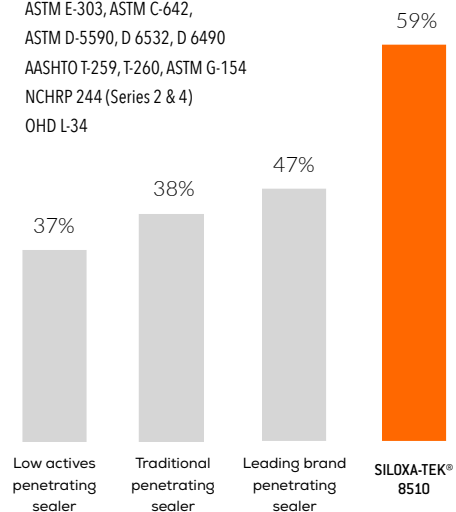
150-400 ft²/gallon

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

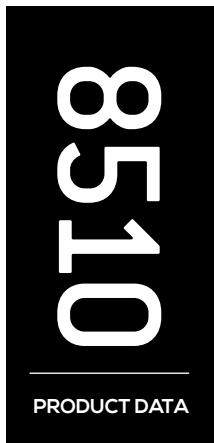
DEPTH OF PENETRATION WATER REPELLENCY AND WEATHERING

Meets the requirements of:

- ASTM E-514, ASTM E-96, ASTM C-672,
- ASTM E-303, ASTM C-642,
- ASTM D-5590, D 6532, D 6490
- AASHTO T-259, T-260, ASTM G-154
- NCHRP 244 (Series 2 & 4)
- OHD L-34



Percentage Improvement vs. Control



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TECHNOLOGY // ADVANTAGES

- **Composition** - Supercharged, nanotechnology driven, proprietary isomers of silane with a 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 and efflorescence
- **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
- **Solvent based** - 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

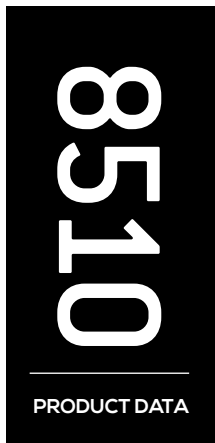
Appearance - Slight yellowish tint (dries clear)

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

VOC'S - 100g/L maximum

Flash Point - 109° F (43° C)

Specific gravity - 0.76 **Density** - 6.3 lb/gal



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TESTING DATA

TEST METHOD	TYPE	RESULTS
<p>ASTM E 303 Standard test method for measuring surface friction (BPT).</p>	<p>Skid Resistance Troweled Concrete Untreated Treated</p>	<p>90 90</p>
<p>ASTM D 6532 Standard test method for evaluation of clear water repellents on water absorption in concrete.</p>	<p>Water Absorption, % Concrete Brick</p>	<p>0.96 0.05</p>
<p>ASTM D 6490 Standard test method for water vapor transmission or non film forming agents</p>	<p>Water Vapor Transmission WVT (grains/h/ft²) Permeance (perms)</p>	<p>2.0 4.8</p>
<p>ASTM E 514 Standard test method for water penetration and leakage through masonry</p>	<p>Water Penetration of Masonry, % Reduction Dampness Leakage</p>	<p>100 100</p>
<p>ASTM D 6532 Standard test method for evaluation of clear water repellents on water absorption in concrete</p>	<p>Water Exclusion, % Concrete Brick</p>	<p>92 99</p>
<p>ASTM C642 Standard test method for density, absorption and voids in hardened concrete</p>	<p>Water Absorption, % 48 hours 50 days</p>	<p>0.26 .70</p>
<p>ASTM C672 Standard test method for scaling resistance of concrete surfaces exposed to deicing chemicals</p>	<p>Scaling resistance rating, non-air-entrained concrete 100 cycles</p>	<p>0-No scaling</p>
<p>Alberta DOT penetrating sealer, Type 1C (0.35 w/c ratio)</p>	<p>Water Repellency After Heavy Abrasion, %</p>	<p>84.5 (exceeds criteria)</p>
<p>NCHRP Series II-Cube Test</p>	<p>Water Weight Gain, % reduction 250 ft²/gal 400 ft²/gal</p>	<p>95 90</p>
<p>NCHRP Series II-Cube Test</p>	<p>Absorbed Chloride, % reduction 250 ft²/gal 400 ft²/gal</p>	<p>98 94</p>
<p>NCHRP Series IV - Southern Climate</p>	<p>Absorbed Chloride, % reduction</p>	<p>98 (exceeds criteria)</p>

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 .

8510

PRODUCT DATA



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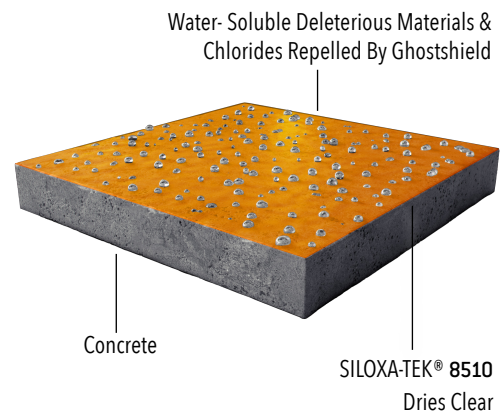
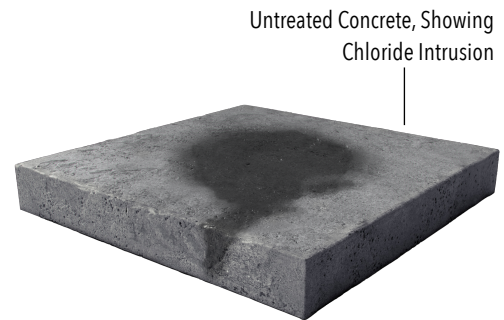
APPLICATIONS // SUBSTRATES

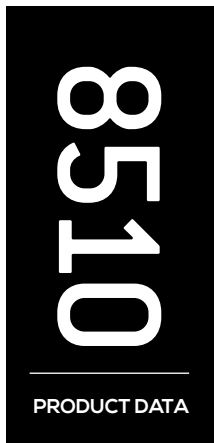
Applications

- 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

1. 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.
2. Stir material thoroughly before and during application. Do not dilute or alter material for purposes other than specified.

Application - (continued)

3. Apply with a solvent-resistant roller, brush or low-pressure, non-atomizing 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

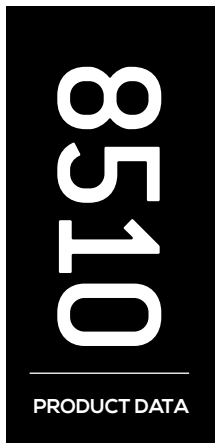
Typical drying time is 4-6 hours at 70°F and 50% relative humidity. Cooler temperatures or higher relative humidity can extend the drying time. Treated surfaces will be ready for pedestrian and vehicle traffic within 24 hours. Water repellency will continue to develop within 7 days of application.

Clean Up

Clean equipment and tools with 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.

66 River Road
Hudson, NH 03051

www.Ghostshield.com

Customer Service and Technical Support

1-855-KreteTek (1-855-573-8383)

Warranty

KreteTek Industries Inc. warrants our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. No warranty is made, expressed or implied, regarding such other information, the data on which it is based or the results you will obtain from its use. We shall have no liability for incidental or consequential damages, direct or indirect. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products.

Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sales of our products. Our products contain chemicals that may cause serious physical injury. Before using, read the Safety Data Sheet and follow the precautions to prevent bodily harm.

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 advice 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.

For professional use only.

Last revised 9/22