GHOSTSHIELD*





03 35 00 **Concrete Finishing**

LITHI-TEK[®] 9500

A HIGH PERFORMANCE PENETRATING CONCRETE SEALER THAT DENSIFIES. STRENGTHENS AND WATERPROOFS CONCRETE RESISTING MOISTURE AND VAPOR INTRUSION.

Description

Lithi-Tek® 9500 is a high performance, deep penetrating concrete & masonry waterproofing sealer plus densifier designed to resist water and moisture intrusion.

With it's proprietary reactive agent & through the latest advances in nano technology, its smaller molecular structure, penetrates deep into the substrate forming an insoluble crystalline structure within the pores and capillaries increasing the density while the change of the surface tension creates a surface environment that is hydrophobic sealing the concrete from the inside out.

Lithi-Tek[®] 9500 dries completely invisible, leaving the concretes appearance completely natural and forms an effective barrier within the concrete resisting surface erosion and water absorption putting and end to water & moisture intrusion

Actives

50%

Appearance/color

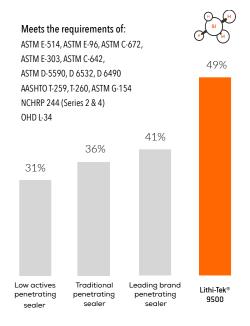
Clear

Coverage (Lithi-Tek® 9500 is concentrated)

150-400 ft²/gallon once reconstituted

DEPTH OF PENETRATION WATER REPELLENCY AND WEATHERING

Technical Data Sheet





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TECHNOLOGY // ADVANTAGES

- 100% reactive Hardens, densifies and waterproofs concrete, resisting water absorption, prolonging service life
- Increases abrasion resistant Tightly binds together concrete reducing concrete dusting. Provides ease of maintenance to provide long-lasting protection on substrates subject to traffic
- Small molecular structure allows for deeper penetration and increased performance
- Prevents ASR attacks by preventing the ingress of water
- Provides increased protection as a hydrophobic barrier to prevent future penetration of water and soluble aggressive agents
- Reduction of water ingress moisture intrusion and vapor transmission
- Does not alter surface appearance the treated surface is natural, tack-free and slip-resistant and dries completely clear
- Resists organic growth mold, mildew, lichen, efflorescence and dirt pick up
- 100 % Breathable allows moisture to escape without damaging the sealer
- Water-based proprietary environmentally friendly formula with no odor, no VOC's
- Excellent penetration depth into any concrete substrate

- Improves durability Prevents capillary uptake of water and the aggressive substances dissolved in it
- Natural flat finish Does not change concretes surface appearance
- Super UV stable resistant to ultra-violent radiation, will not yellow or fade
- Unrivaled industry leading 100 year warranty Penetrates never delaminates, never diffuses, peel or flakes will not discolor yellow or degrade from UV light exposure.
- Can be applied to cured and honed and concrete Ideal for horizontal surfaces exposed to pedestrian and vehicle traffic

TYPICAL PROPERTIES

Appearance - Transparent clear liquid

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

VOC'S - 0g/L

Specific gravity - 0.97 Density - 8 lb/gal

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Sections 07 19 16 Water Repellents



Technical Data Sheet

TESTING DATA

TEST METHOD	ТҮРЕ	RESULTS
ASTM WK 24567 Standard test method for soluble silicate densifiers , chemical hardening treatments, and waterproofing treatments for hardened concrete.	Density of substrate and water repellency	Pass in
ASTM C 39 Standard test method for compressive strength of cylindrical concrete specimens	Compression test, 3000 psi Untreated Treated	3150 psi 4250 psi
ASTM E 303 Standard test method for measuring surface friction (BPT).	Skid Resistance Troweled Concrete Untreated Treated	90 90
ASTM D 6490 Standard test method for water vapor transmission or non film forming agents	Water Vapor Transmission WVT (grains/h/ft²) Permeance (perms)	1.4 3.4
ASTM E 514 Standard test method for water penetration and leakage through masonry	Water Penetration of Masonry,% Reduction Dampness Leakage	100 100
ASTM D 6532 Standard test method for evaluation of clear water repellents on water absorption in concrete	Water Exclusion, % Concrete Brick	79 88
ASTM C642 Standard test method for density, absorption and voids in hardened concrete	Water Absorption , % 48 hours 50 days	0.27 .56
ASTM C 779 Standard test method for abrasion resistance of horizontal concrete surfaces	Abrasion Resistance, depth of wear, in (mm) 30 minutes untreated concrete Lithi-Tek® 9500 treated	0.0264 (0.7) 0.0025 (0.06)
ASTM C 779 Standard test method for abrasion resistance of horizontal concrete surfaces	Abrasion Resistance, depth of wear, in (mm) 60 minutes untreated concrete Lithi-Tek® 9500 treated	0.0428 (1.1) 0.0106 (0.27)

Test results are averages obtained in a controlled environment, material and curing conditions of $75^{\circ}F$ and 50% relative humidity. Reasonable variations should be expected .

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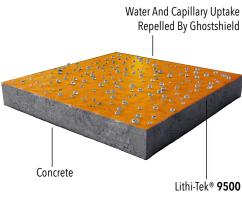












Dries Clear



APPLICATIONS // SUBSTRATES

Applications

- Interior // exterior concrete
- Horizontal // vertical substrates
- Concrete parapet caps
- Concrete ramps and barriers
- Parking garages
- Stadiums and buildings
- Concrete driveways, loading docks, public sidewalks, garages and shops floors.
- Plazas
- warehouses

Substrates

• Poured and cast in place concrete

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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. If acid was used to clean the concrete, neutralize the surface and rinse with water prior to application. Allow for proper dry time before application. The surface-zone moisture content of the concrete should not exceed 4%wt. Do not apply if standing water is visible. 3. Surface and air temperatures must be at least 40F during application. Surface and air temperatures should not exceed 95F. Do not apply when temperatures are expected to fall below 32F 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.
 Always mix the concentrate with 4 parts water prior to application.
 Distilled water is recommended for maximum performance. Stir material throughly before and during application..

Technical Data Sheet

Application - (Continued)

3. Two wet-on-wet coats are needed to ensure complete coverage. Apply with a roller, brush or low-pressure non-atomizing sprayer. Apply in a uniformed manner not exceeding the substrates absorption rate and let the first coat penetrate for 5-10 minutes then reapply a second coat in the same manner. Less material will be needed for the second coat. Roll or broom out any puddles until the sealer penetrates the substrate. **Do not over apply** (Over application may results in whitening of the surface). 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 hot soapy water. 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.

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Technical Data Sheet

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Concrete Finishing

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.
- Do not use on extremely porous concrete or masonry such as CMU block.
- Do not over apply. Sealer is highly reactive. Excess material may result in a a white residue or discoloration.
- Does not protect against equipment leaks such as oils and hydraulic fluids.
- Make sure the most current versions of product data sheets and SDS are being used.

Coverage

Lithi-Tek® 9500 is concentrated. 1 coat: 1000 - 1200 square. 2 coats: 500 - 600 square feet. Variations in texture and porosity of substrate will affect the coverage and performance of the product.

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

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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