



TECHNICAL DATA SHEET

LITHI-TEK® 9500

An industrial-grade, water-based, proprietary sealer designed to densify, strengthen and waterproof concrete: increasing abrasion resistance while reducing moisture and vapor intrusion. Lithi-Tek 9500 is the industry's most innovative product. A proprietary blend of chemistries, this clear penetrating sealer not only densifies and hardens concrete making it up to 50% stronger, but its hydrophobic nature resists moisture intrusion and vapor transmission making it the go to choice to seal basements and driveways.

APPLICATIONS

Exceptional when used for:

- Substrates: Concrete
- Applications: Basement floors, poured basement walls, driveways, patios & garages not exposed to deicing salts

Not for use on:

- Bricks, concrete blocks/cinderblocks,
- Polished concrete/extremely smooth concrete surfaces

BENEFITS

- Increases abrasion resistance
- Strengthens concrete up to 50%
- Water beading effect
- Excellent penetration
- No change in appearance
- Low VOCs
- Prevents mold/mildew growth
- Prevents efflorescence
- Reduces water absorption
- Resists hydrostatic pressure
- Reduces water vapor transmission
- Reduces moisture intrusion
- Prevents ASR/alkali attacks
- Resists UV radiation

DESCRIPTION

Lithi-Tek® 9500 is an advanced, high performance, industrial strength, penetrating concrete waterproofing sealer solution designed to reduce water and moisture intrusion. This unique formula incorporates leading molecular nanotechnology, putting an end to water and moisture migration through any porous concrete substrate. Lithi-Tek® 9500 is a uniquely transparent, blended formula with added enzymes and surfactants that aide in accelerating a deeper penetrating disbursement. Thus eliciting a more effective, uniformed



TECHNICAL DATA SHEET

chemical reaction between the formula and the concrete substrate it's being applied to. Lithi-Tek® 9500 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.

- Available in an industry first ultra-concentrate, 1 gallon of Lithi-Tek 9500 mixes with 4 gallons of water to make 5 gallons of sealer that will treat up to 1000 sq. ft. of concrete per coat.

HOW IT WORKS

A hybrid densifying, impregnating sealer is typically used to densify, harden and prevent water and water-soluble damaging substances from penetrating concrete and mineral substrates. Once impregnated the reaction process from the active silicate ingredient produces additional C-S-H (calcium silicate hydroxide) within the capillary tracts thus increasing the density and volumetric mass. The change of the surface tension elicited from the waterproofing component forms a repellent cross-linking membrane that is hydrophobic and able to repel water and water-soluble deleterious materials.

In structures on and below grade water should generally be kept out and away to prevent damage. Lithi-Tek® 9500 can block up to 99% of surface moisture. The chemical reactive and 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. Lithi-Tek® 9500 is a small investment that leads to long-term savings and improved performance for decades.

PREPARATION

Avoid contact with skin, eyes and clothing. 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:

Step 1: The concrete substrate must be structurally sound, thoroughly dry and clean. Wait at least 24-48 hours after rain and/or pressure washing before sealing; concrete should be visibly dry.

Step 2: Remove all paints, previous sealers and/or adhesives before application.

Step 3: 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.

Step 4: If acid is used to clean the concrete, neutralize the surface completely and rinse it with water prior to application. Then wait for the concrete to dry out for at least 24-48 hours.

Step 5: The surface-zone moisture content of the concrete should not exceed 4%wt.

Step 6: Cover all surrounding areas not intended to be coated.



TECHNICAL DATA SHEET

APPLICATION

Step 1: Lithi-Tek® 9500 is a concentrated product that needs to be mixed with water prior to application. We recommend using a five (5) gallon bucket to mix the sealer. Pour the one (1) gallon container of Lithi-Tek® 9500 into a five (5) gallon bucket.

Step 2: Next fill up the bucket with four (4) gallons of water (distilled water is preferred). (Lithi-Tek® 9500 can be mixed in smaller quantities as long as the one (1) part Lithi-Tek® 9500 to four (4) parts water ratio is followed. For example, one (1) cup Lithi-Tek® 9500 can be mixed with four (4) cups of water, or a half (1/2) gallon of Lithi-Tek® 9500 can be mixed with two (2) gallons of water).

Step 3: Stir the Lithi-Tek® 9500 and water mixture well before using.

Step 4: If spray applying, pour the mixed material into a sprayer. If roll applying, dip a 3/8" nap roller into the bucket of mixed material.

Step 5: Spray or roll one coat onto an area of approximately 100 square feet.

Step 6: Immediately apply a second coat to the same 100 square foot area, while the first coat is still wet. You may walk on the first coat to apply the second coat. Apply until the surface is saturated but not to the point of puddling. (Since the Lithi-Tek® 9500 is a hydrophobic product if you try to apply a second coat after the first coat has dried, the first coat may try to repel the second coat).

Step 7: Roll or broom out any puddles until the sealer penetrates the substrate.

Step 8: After the first area has been treated move on to the next 100 square foot section and apply two (2) coats following the wet-on-wet application method.

Step 9: When the entire application has been treated with two (2) coats, let the concrete dry for at least six (6) hours before walking, 24 hours before driving, and protect the concrete from rain for at least 24-48 hours after sealing.

Step 10: Clean up: Application tools can be cleaned using soap and water.

Step 11: If over-spray occurs it should be cleaned and removed immediately after sealing.

Step 12: Unused or old material may be disposed of in a waste disposal site in accordance with local, state and federal laws.

APPLICATION NOTES

- Before application test the sealer by applying in an inconspicuous area to ensure the desired coverage and appearance is achieved.
- Do not use on extremely porous concrete or masonry such a hollow concrete block or bricks.
- Do not over apply. Excess material may result in a white residue or discoloration.
- Prevent from getting on glazed and finished surfaces such as glass, aluminum etc. In case of contact flush immediately with water.



TECHNICAL DATA SHEET

- Does not prevent equipment leaks or other leaks such as oil, hydraulic fluid etc. Use the Siloxa-Tek® 8505 or Siloxa-Tek® 8510 for oil repellency and staining resistance.
- Do not use on concrete that has been previously sealed without chemically etching or mechanically scarifying.
- Water repellency may take up to seven (7) days to develop.

TECHNICAL SPECS

- Feature: Waterproof/Densifier
- Chemistry: Proprietary hybrid technology
- Color: Clear
- Finish: Invisible
- Category: Penetrating
- Carrier: Water
- Availability: Ultra Concentrate: Makes 5 Gallons
- Packaging: 1 Gallon
- Coverage: 1000 sq. ft. per coat
- Reconstitution Ratio: 1 part sealer : 4 parts water
- Interior/Exterior: Interior/Exterior
- Application Method: Sprayer, Roller
- 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
- Storage/Shelf Life: 1 Year
- Clean up: Soap/water
- Paintable: Yes, oil or enamel based paint; first test for compatibility
- VOC Content: 0 g/L

WARRANTY/LIMITATIONS OF LIABILITY

We warrant that 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. No warranty is made, expressed or implied, that our product shall be merchantable or that our product shall be fit for any particular purpose. No warranty is made that the use of such information or our product will not infringe upon any patent. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. 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



TECHNICAL DATA SHEET

authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may cause serious physical injury. Before using, read the Safety Data Sheet and follow all precautions to prevent bodily harm.