



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



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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. No respirator is needed when applying this product. 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. 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. Please note: Lithi-Tek® 9500 is a concentrated solution that needs to be reconstituted with water prior to application. Mix 4 parts water with 1 part Lithi-Tek® 9500. 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



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coats wet-on-wet to ensure complete coverage (apply the second coat immediately after the first coat, while the first coat is still wet). Roll or broom out any puddles until the sealer penetrates into the substrate.

APPLICATION NOTES

- Do not use on extremely porous concrete or masonry such as hollow concrete block.
- 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.
- 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 7 days to develop.

TECHNICAL SPECS

- Feature: Waterproofer/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