TECHNICAL DATA SHEET

LITHSEAL SC

Lithium Silicate Concrete Sealer/Densifier/Hardener

DESCRIPTION

LithSeal SC is a premium lithium silicate sealer/densifier/hardener for concrete surfaces. LithSeal SC deeply penetrates and reacts with cured concrete, producing calcium silicate hydrate within the concrete pores. Treated surfaces remain breathable, with reduced porosity, dusting and water permeability and increased abrasion resistance. When properly applied, LithSeal SC will not leave the whitish blush characteristic of sodium silicate products. A compatible ASTM C309 curing compound such as SpecChem SpecRez or E-Cure may be applied to finalize the curing process. After the concrete has thoroughly cured, a floor scrubber equipped with a Nylo-Grit or similar abrasive cleaning pad will remove residual construction debris and curing compound and further enhance the LithSeal SC surface shine.

BENEFITS

- Reduces application costs with one-step, low-pressure spray application on broom or hard-troweled finishes
- Achieves architectural finishes; does not contribute to alkali-silica reaction (ASR); will not leave a white surface like other silicate products
- Reduces dusting, porosity and water permeability
- Improves abrasion resistance, light reflectance and gloss
- Deeper penetrating than conventional silicates
- Breathable; can be used interior and exterior
- Fast-curing; ready for traffic in one hour for most floors
- Apply on new or existing concrete
- Environmentally and economically efficient sealer
- Single, low-maintenance application
- USDA accepted; recommended for ACI 302 Class 1 through 5 concrete floors and Class 9 superflat floors

APPLICATION

Always follow the Technical Data Sheet instructions and the safety information in the SDS. LithSeal SC may be applied to freshly placed concrete after final finishing and to existing (cured) concrete. Always apply LithSeal SC to a clean surface free of cures, bond breakers, oil, dirt, grease or debris. When necessary, clean concrete surfaces with SpecChem Orange Peel citrus cleaner, neutralize with a neutral-pH detergent and thoroughly flush with water.

Freshly Placed Concrete: After final finishing, apply LithSeal SC with a quality low-pressure sprayer with a fan tip. Uniformly spread LithSeal SC with a soft broom or microfiber applicator to thoroughly coat the concrete, eliminating any puddles or excess. Apply enough material to keep the surface wet for 15–20 minutes. Apply additional LithSeal SC to porous areas that dry quickly. Any excess LithSeal SC that dries on the surface will appear as a dry powder residue and can be removed with a stiff broom, power sweeper or floor scrubbing machine.

Pre-Seal Densifier for Tilt-Up: When using LithSeal SC as a pre-seal in tilt-up panel areas, an extra application of SpecTilt bond breaker is recommended as a curing compound as soon as the LithSeal SC has dried. This provides an excellent base for subsequent bond breaker coats.

Existing Concrete: Confirm removal of all surface contaminants. For best results, clean and open the surface with a 60–100-grit sanding screen or diamond abrasive pad. Remove dust and residue with a

thorough water rinse and scrubber, then squeegee the surface dry. Apply LithSeal SC with a quality low-pressure sprayer in a single saturating coat. Uniformly spread LithSeal SC with a soft broom or microfiber applicator to thoroughly coat the concrete, eliminating any puddles or excess. Apply enough material to keep the surface wet for 15–20 minutes. Apply additional LithSeal SC to porous areas that dry quickly. Let treated areas dry. Remove any dried powdery residue with a stiff broom or floor scrubbing machine.

COVERAGE

Surface	sq ft/gal	m^2/L
Fresh, uncured, burnished	800–1,000	19.6–24.5
Existing, steel-troweled	400–500	9.8–12.3
Existing, float-finished	250–350	6.1–8.6

Coverage varies with concrete porosity. Typical dry time is 1–2 hours.

Final Finishing

Surfaces treated with LithSeal SC will increase in hardness, durability and shine over time with regular maintenance. To enhance the surface sheen, buff or burnish the dry concrete with an orbital floor machine or high-speed propane burnisher in both directions with a black, then a red, floor cleaning pad. Additional gloss can be achieved by burnishing with diamond-impregnated 800-grit or hog's hair pads on a high-speed machine. Consult a professional applicator for this procedure.

TECHNICAL DATA INFORMATION

Appearance ..... Clear
Specific gravity 1.04
Weight per gallon ..... 8.67 lb (1.04 kg/L)
VOC content ..... 0 g/L
Freeze point ..... 32 °F (0 °C)
USDA accepted for indirect food contact

PACKAGING

275-gallon totes (1,041 L)
55-gallon plastic drums (208.2 L)
5-gallon plastic pails (18.9 L)

SHELF LIFE

Shelf life of LithSeal SC in the original, tightly closed container is two years from the date of manufacture.

LIMITATIONS

- As every project and application can vary, it is the contractor's responsibility to determine compatibility by performing a field test simulating actual jobsite conditions.
- Do not use acidic or strong citrus-based cleaners on LithSeal SC-treated floors. Although LithSeal SC improves the ability of the treated surface to resist liquid penetration and staining, spills should be cleaned up quickly to minimize damage.

PRECAUTIONS

INDUSTRIAL USE ONLY

Additional precautions, safety information and first aid are contained in the Safety Data Sheet (SDS).

WARRANTY

NOTICE – READ CAREFULLY

CONDITIONS OF SALE

SpecChem offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION

SpecChem warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO

CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.

Revised 09/30/26

1511 Baltimore Ave, Suite 600
Kansas City, MO 64108

www.SpecChem.com
816-968-5600