

# 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. This reaction produces a calcium silicate hydrate within the concrete pores. Treated surfaces will remain breathable, reduce porosity, reduce dusting, reduce water permeability and increase abrasion resistance. When properly applied, LithSeal SC will not leave the whitish blush characteristic of other sodium silicate products

## FEATURES/BENEFITS

- Reduce application costs with one step low pressure spray application on broom or hard troweled finishes.
- Achieve architectural finishes, does not contribute to Alkali Surface Reaction (ASR), Will not leave a white surface as compared to other silicate products.
- Reduce dusting, porosity, 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 super flat floors

## APPLICATION

Always follow Technical Data sheet instruction and Safety information provided on the SDS. LITHSEAL SC may be applied on freshly placed concrete after the 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 Spec-Chem Orange Peel citrus cleaner and neutralize with a neutral ph detergent. Thoroughly flush with water.

### Application for freshly placed concrete:

After final finishing apply LITHSEAL SC with a quality low pressure sprayer with a fan tip. Uniformly spread the 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.

## APPLICATION (con't)

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 any residual construction debris, curing compound and further enhance the LithSeal SC surface shine.

### Application as Pre-Seal densifier for Tilt-Up:

When using LITHSEAL SC in a pre-seal application 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 to finalize curing. This will provide an excellent base for subsequent bondbreaker coats.

### Application for existing concrete:

Confirm removal of all surface contaminants. For best results clean the surface with a 60-100 grit sanding screen or diamond abrasive pad. Remove any dust and residue with a thorough water rinse and scrubber. Water rinse and squeegee surface dry

Apply LITHSEAL SC with a quality low pressure sprayer. In a single saturating coat. Uniformly spread the 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 Rates:

Coverage rates will vary with concrete porosity.

Fresh, Uncured, Burnished Concrete.....800-1000ft<sup>2</sup>/gal

Existing Steel Troweled Concrete.....400-500ft<sup>2</sup>/gal.

Existing Float Finished Concrete .....250-350ft<sup>2</sup>/gal.

Typical Dry time is 1-2 hours

## TYPICAL TEST DATA

Appearance — Clear  
 Specific Gravity — 1.04  
 Weight/Gal.— 8.67 lbs.  
 VOC Content =0 g/l  
 Freeze Point — 32°F  
 USDA Accepted for Indirect Food Contact

**SPEC***CHEM*  
*Solution to Service*

1511 Baltimore Ave, Suite 600

Kansas City, MO 64108

[www.specchem.com](http://www.specchem.com)

816.968.5600

## FINAL FINISHING

### Final Appearance and Treatment

Surfaces treated with LithSeal SC will increase in hardness, durability and shine over time and regular maintenance.

To enhance the surface sheen, buff or burnish the dry concrete surface with a orbital floor machine or high speed propane burnishing machine in both directions with a black, then red floor cleaning pad.

An additional gloss can be achieved on treated surfaces by burnishing with a diamond-impregnated 800 grit or hogs hair pads on a high speed machine. Please consult a professional applicator for this type of procedure.

## SHELF LIFE

Shelf life of LITHSEAL SC in the original tightly closed containers is two years from date of manufacture.

## PACKAGING

LITHSEAL SC is packaged in 275 gallon totes, 55 gallon plastic drums and 5 gallon plastic pails.

## LIMITATIONS

Protect from freezing. As every project and application can vary, its is the contractor's responsibility of determining compatibility by performing field test simulating actual jobsite conditions.

Do not use acidic or strong citrus based cleaners to LithSeal SC treated floors. Although LithSeal SC will improve the ability of the treated surface to resist liquid penetration and staining, spills should be cleaned up

## 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.



1511 Baltimore Ave, Suite 600  
Kansas City, MO 64108  
[www.specchem.com](http://www.specchem.com) 816.968.5600