



**SC-21 Lithium Silicate**

**Description**

SC-21 Lithium Silicate is an easy to apply, ready to use concrete densifier. SC-21 will react with the concrete to fill and seal capillaries in concrete, creating a dense hard surface which will minimize any future dusting and will allow coatings to adhere securely. SC-21 is zero VOC and will improve the sheen and strength of concrete surfaces.

**Uses**

SC-21 is suited for maintenance areas, driveways, parking lots and most concrete applications. Lithium Silicate is recommended for use when grinding and polishing concrete. It is also excellent for older concrete in order to minimize dusting, harden, make slabs more abrasion resistant and allow coatings to adhere.

**Advantages**

Increases Useful Life of Concrete Structures • Zero VOC • Easy to Handle and Apply • Reduces Porosity and Permeability • Increases Chemical Resistance • Penetrates to Provide Long Term Performance & Gloss • Greatly Increases Water Resistance • May be Used when Polishing • Indoor/Outdoor Application • Allows Concrete to Breathe • Enhances Color and Shine

Product Data			
<b>Packaging</b>	5 gal pail	<b>Colors</b>	Clear
<b>Coverages</b>	~400-1000 ft <sup>2</sup> /gal	<b>Mix Ratio</b>	N/A - Stir prior to use
<b>VOC Content</b>	0 gm/l	<b>Shelf Life</b>	3 years in unopened packaging

**Inspection**

Surfaces must be structurally sound. The surface must be dry and free of oil, grease, curing agents, dirt, dust or other foreign material that may prevent proper adhesion.

**Moisture**

All concrete should be tested for moisture before applying a seamless coating. If moisture emissions exceed 5 lbs/1000 square feet (ASTM F1869) or if the relative humidity (RH) exceeds 75% (ASTM F2170), contact the manufacturer before application.

**Preparation**

For a new interior slab, SC-21 can be applied on a new slab with minimal prep. A slab with no foreign material can be prepped with a nylogrit brush. Carefully sweep and vacuum to prepare surface.

For an old slab, remove any material that will interfere with the reaction process. This is typically done with high-pressure water or by mechanical means (grinding, blasting, etc).

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**PRODUCT  
SPECIFICATION**

**SC**

**SURFACE COAT**  
PROTECTIVE SEALERS & STAINS

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### Mixing

Stir prior to use.

### Thinning & Coverage

Dilution rates according to concrete hardness:

NOTE: Concrete must be over 28 days old. Dilution rate is determined by porosity of the concrete at the time of treatment.

Soft (cured, ground 80-200 grit profile): Undiluted - Coverage Rate 400 to 500 square feet/gal.

Medium (cured, steel troweled concrete): ½ gallon water to 1 gallon SC-21 - Coverage Rate 600 to 750 square feet/gal.

Hard (high quality, steel troweled concrete): 1 gallon water to 1 gallon SC-21 - Coverage Rate 800 to 1000 square feet/gal.

The contractor's level of knowledge and experience are key to determining the dilution rate and effectiveness of the resulting application. Producing a representative jobsite test section is recommended.

### Applying Product

Always test a small area of each surface to confirm suitability and desired results before starting overall application. Test with the same equipment and application procedures planned for entire job. Apply enough SC-21 to wet surface and not puddle. Use a low pressure sprayer fitted with a 0.5 gpm spray tip (fan spray would be best). Use a clean, soft-bristle push broom or microfiber pad to spread product evenly and ensure uniform wetting, brooming out any puddles. Avoid spreading once drying begins. Surface should be dry within 5 to 10 minutes, otherwise too much material may have been applied.

NOTE: Allowing excess material to puddle on the floor will create white residue, which must be removed immediately. If residual SC-21 is allowed to dry on the concrete surface, it will leave unsightly deposits that are difficult to remove. The appearance of residue on the concrete surface after completion indicates that excess SC-21 was not removed. This residue can only be removed by mechanical means.

For polishing, SC-21 can be applied at virtually any stage in the polishing process and typically will be applied before or after the final pass of diamonds. This material can be walked on during the application in order to maintain the dampness. Take great care, since the surface can become slippery during the process.

Prevent all traffic until product is completely dry. You may do a second application depending on the desired effect.

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### Dry Time

Dry time will vary depending on use, typically 30 minutes to 2 hours.

### Clean Up

Uncured material should be removed with soap and water. Cured material should be removed mechanically.

### Limitations

- This product is designed for professional use only.
- Do not apply at temperatures below 55°F or above 95°F.
- Protect surrounding areas from material.
- This product will etch glass and aluminum.
- Do not apply if rain is forecasted within 12 hours.
- This product will etch glass and aluminum. Wash off immediately with liberal amounts of water.
- Do not allow any Westcoat products to freeze.

### Health Precautions

Inhalation of vapor or mist can cause headache, nausea, irritation of nose, throat and lungs. Prolonged or repeated skin contact can cause slight skin irritation. Avoid contact with skin and wear protective gloves and eye protection.

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