

## PRODUCT DATA SHEET

# Sikafloor®-956 Formula One™ LD RTU

Deep penetrating lithium densifier for improving concrete surface hardness, ease of polishing, and stain resistance

### PRODUCT DESCRIPTION

Sikafloor®-956 Formula One™ LD RTU is a very low VOC concrete densifier formulated to penetrate deeply and quickly react with concrete components. It will harden, densify, and increase the abrasion resistance of cementitious surfaces. Based on a blend of lithium silicate and surface tension modifiers, it deeply penetrates concrete pores easier than competitive products. It reacts with cement, pozzolans, and most aggregates to fill microvoids, allowing concrete to polish faster while improving water and stain resistance. It is not a coating and will not crack, peel, or delaminate from surfaces. Previously named SCOFIELD® Formula One™ Lithium Densifier MP and Sikafloor®-956 LD.

### USES

Sikafloor®-956 Formula One™ LD RTU may only be used by experienced professionals.

Use as an effective dye-lock when polishing concrete or to harden, densify, or dustproof the cementitious surfaces of:

- Interior or exterior floors
- Stairs and walkways
- Terrazzo
- Ground and polished floors
- Countertops
- Below grade basements

### CHARACTERISTICS / ADVANTAGES

- Low-odor, non-yellowing water-based formulation
- Non-film forming
- Bonds directly to cement and aggregate silicates
- Effectively locks in concrete dyes
- Shortens concrete polishing times
- UV light stable and weather-resistant
- Combats deteriorating surface ASR and frosting
- Resists efflorescence
- Cures to a non-toxic, non-flammable surface
- Apply by brush, roller, spray, or mop

### APPROVALS / STANDARDS

- Sikafloor®-956 Formula One™ LD RTU can be used as part of a low VOC concrete polishing system to earn LEED credits for:
  - LEED BD+C: New Construction  
**Low-emitting materials - paints and coatings**  
Indoor Environmental Quality  
EQc4.2
- Sikafloor®-956 Formula One™ LD RTU can be used with Sikafloor®-959 Formula One™ Guard W to make floors that exceed the UL Standard UL 410: Standard for Slip Resistance of Floor Surface Materials.

## PRODUCT INFORMATION

<b>Chemical Base</b>	Lithium Silicate with a Penetrating Aid
<b>Packaging</b>	5 gal. (18.9 L) fill in 5 gal. (18.9 L) plastic pail 55 gal. (208.2 L) fill in 55 gal. (208.2 L) plastic drum
<b>Shelf Life</b>	24 months in original unopened container
<b>Storage Conditions</b>	Store in original, unopened containers, in dry storage, between 40-120°F (4.4-48.9°C). Do not freeze.
<b>Solid content by volume</b>	12%

## APPLICATION INFORMATION

<b>Coverage</b>	Coverage on flat finished concrete is typically 200-400 sq. ft./gal. (4.9-9.8 sq. m/L). Old or soft concrete will require more material, while slabs ground to expose hard, non-absorptive aggregates will require less material.  Coverage will vary depending on the method of application, surface porosity, age, moisture, absorption characteristics, and the texture of the concrete.
<b>Drying Time</b>	At 70°F (21.1°C) and 50% relative humidity with an application rate of 400 sq. ft./gal. (9.8 sq. m/L), surfaces shall be dry, walkable, and ready for the next polishing stage in 1 hour.  Dry times will depend upon the selected coverage rate, penetration into the substrate, and weather conditions.

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## LIMITATIONS

- Sikafloor®-956 Formula One™ LD RTU is not a membrane-forming curing compound and does not conform to ASTM C309-19 - Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete.
- Sikafloor®-956 Formula One™ LD RTU is not a substitute for proper curing procedures.
- Sikafloor®-956 Formula One™ LD RTU is not designed to provide water or oil resistance to the concrete surface without further treatment.
- If residual Sikafloor®-956 Formula One™ LD RTU 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 the excess Sikafloor®-956 Formula One™ LD RTU was not removed. This residue can only be removed by mechanical means.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## APPLICATION INSTRUCTIONS

Cast a job site mock-up before the installation for approval of color and finish. Verify each individual concrete color, finishing technique, densifier, and sealer combination. Job site mock-ups must be of adequate size to be representative and produced by the same workers who will apply the product to the larger job. Verify adequate wet and dry slip resistance. Do not proceed with products, techniques, or finishing systems that do not meet required safety specifications or site owner approval. Maintenance requirements shall also be discussed.

Although the successful application can be performed with topical applications, the use of brooms, sponges, or mops to work the material into substrate pores has proven to produce superior results.

## EQUIPMENT

Apply Sikafloor®-956 Formula One™ LD RTU by brush, roller, sponge, mop, or pump-spray application. For large jobs, use rotary floor scrubbers equipped with brushes or pads. Always wear protective clothing and equipment appropriate for the method of application.

### Spray Applicator Guidelines:

Pump Garden Sprayer	Use conical tip and apply with circular motion
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## SUBSTRATE QUALITY

Concrete must be at least 7 days old so that the initial concrete cure is complete. A 28-day cure is preferred so that the slab is fully dry and absorbent. Surfaces must be dry and free of prior sealers, curing compounds, oils, or other foreign materials that might prevent penetration.

## SURFACE PREPARATION

If used as a first-stage densifier or dye-lock for concrete polish work, grind the concrete surface to the desired aggregate exposure, ending with 80 to 200-grit tools. Use brooms or vacuums to remove all grinding dust, loose concrete laitance, and powders, or the densifier may permanently adhere them to the surface.

## MIXING

Sikafloor®-956 Formula One™ LD RTU is ready to use and requires no blending or dilution. Mild agitation is recommended before usage.

## APPLICATION

Mask all areas not to be coated to safeguard against splashes, overspray, and runoff from the application. Dried material will be challenging to remove. Remove overspray immediately with soap and water. Take care not to allow tape adhesive to interfere with surfaces to be treated. Surfaces wet with material will be slippery until dry.

Distribute the product with a pump garden sprayer to thoroughly saturate the surface. Surfaces shall remain wet for 5 to 10 minutes. Work material into the surface with a broom, mop, or sponge to ensure the product penetrates substrate pores and microcracks. Spread or scrub puddles of excess material into surfaces before it is allowed to dry. Take care not to create lap marks, as they cannot be removed once the product has dried. If too much material has been applied and it is puddled after 30 minutes, dilution and removal with a wet vacuum are recommended.

When the first application is dry to the touch, a second coat can be applied to maximize densification properties. If used as a polishing aid, wet polishing can begin when dry to the touch.

After completing the application of Sikafloor®-956 Formula One™ LD RTU and the optional polishing step, prepare for the application of Sikafloor®-958 Formula One™ Finish Coat or Sikafloor®-959 Formula One™ Guard W. Consult the most current Sikafloor®-958 Formula One™ Finish Coat or Sikafloor®-959 Formula One™ Guard W local Product Data Sheet for complete Application Instructions.

If surfaces will not be polished further or sealed with a coating, wash them at this stage with fresh water to remove excess densifier. When completely dry, they can be returned to service. If sealing, wait 24 hours to allow the densifier to cure.

## CLEANING OF TOOLS

Clean equipment with warm water and detergent immediately after application.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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