

PRODUCT DATA SHEET

Sikafloor®-957 SSD

A concentrated sodium silicate densifier for improving concrete surface hardness, resistance to dirt pick-up, and ease of polishing.

PRODUCT DESCRIPTION

Sikafloor® -957 SSD is a concentrated VOC free concrete densifier formulated to economically harden, densify, and increase the abrasion resistance of cementitious surfaces. Based on concentrated sodium silicate, it is diluted with water so it can deeply penetrate into concrete pores. It then reacts with cement, pozzolans, and most aggregates to fill microvoids and allow concrete to polish faster while allowing these surfaces to release moisture vapor. It is not a coating, and will not crack, peel, or delaminate from surfaces.

USES

Use as an effective concrete polishing aid, or to harden, densify, or dustproof the cementitious surfaces of:

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

CHARACTERISTICS / ADVANTAGES

- Low odor, non-yellowing water based formulation.
- Breathable non-film forming surface treatment.
- Bonds directly to cement and aggregate silicates.
- Hardens and improves stain and scratch resistance.
- Deeply penetrates, and quickly reacts.
- Shortens concrete polishing times.
- UV light stable and weather resistant.
- Cures to a non-toxic, non-flammable surface.
- Apply by brush, roller, spray or mop.
- Accepts most water repellent surface treatments.

PRODUCT INFORMATION

Chemical Base	0 VOC, Sodium Silicate, 24% solids
Packaging	5-gallon (18.9 L) Pail
Appearance / Color	Slightly Cloudy
Shelf Life	24 months in original unopened container under proper storage conditions. 30 days after opening.
Storage Conditions	Store in original containers at 40°F to 120°F (4°C - 49°C). DO NOT FREEZE!

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Concrete substrate should be at least at 7 days and preferably 28 days old. Concrete surfaces must be dry and clean of all prior sealers, curing compounds oils or other foreign materials that might prevent penetration. If used as first stage densifier or dye lock for concrete polish work, grind 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..

Jobsite Test Sections

Verify and approve suitability and appearance by making jobsite test sections prior to general application. Test sections must be of adequate size to be representative and be produced by the same workers who will apply product to the larger job. Test completed systems for wet and dry slip resistance to ensure they meet expectations. Do not proceed with products, techniques, or finishing systems that do not meet required safety specifications or site owner approval.

APPLICATION

Sikafloor®-957 SSD can be used full strength or diluted to meet the needs of the specific project. Dilution rate, surface age, hardness, porosity, substrate moisture content, and purpose will determine the optimum combination of dilution and coverage rate.

Dilution Rates

Dilution rate will depend upon porosity, age and condition of the concrete:

Partially eroded, aged, or coarsely ground concrete to be polished: are recommended to dilute the product **1:1** with potable water.

Soft, aged or lightly ground concrete to be polished: are recommended to dilute the product **1:2** with potable water.

Hard, steel troweled, recently ground concrete in good condition are recommended to dilute the product: **1:3** with potable water.

Mixing

Dilution should be performed in non-metallic plastic containers. Mix until uniform.

Coverage

Coverage will depend upon method of application, surface porosity, age, moisture, absorption characteristics and the texture of the concrete. Coverage on flat finished concrete is typically 200–400 ft²/gal (4.9–9.8 m²/L). Old or soft concrete will require more material. Slabs ground to expose hard non absorptive aggregates will take less material.

Equipment

Apply Sikafloor®-957 SSD by brush, roller, sponge, mop, or pump-spray application. Use rotary floor scrubbers equipped with brushes or pads to assist with large jobs. Always wear protective clothing and equipment proper for the method of application.

Spray applicator Guidelines

Pump Garden Sprayer: Use conical tip and apply with circular motion. Mask all areas not to be coated to safeguard against splashes, overspray, and runoff from application. Wear all required safety equipment. Take care not to allow tape adhesive to interfere with surfaces to be treated. Surface wet with material will be slippery until dry.

Distribute product with a pump garden sprayer to fully saturate the surface. Surfaces should remain wet 5 to 10 minutes. Work material into the surface with a broom, mop, or sponge to ensure product penetrates into substrate pores and microcracks. 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 is recommended.

Recoat Time

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

Dry Time

Will depend upon the selected coverage rate, penetration into the substrate, and weather conditions. At 70°F (21°C) and 50 % relative humidity with an application rate of 400 sq. ft. per gallon (9.8 m²/L), surfaces should be dry and walkable and ready for the next stage of polishing or rinsing in 1 hour. If surface will not be polished further, or they will be sealed with coating, wash surfaces at this stage with fresh water to remove excess densifier. when completely dry, surface can be returned to service or receive finish coat. If sealing waits 24 hours to allow the densifier to cure.

LIMITATIONS

Sikafloor®-957 SSD is not a membrane forming curing compound and does not conform to ASTM C 309 requirements. It is not a substitute for proper curing procedures. It is not designed to provide water or oil resistance to the concrete surface without further treatment.

Do not use in combination with LITHOCHROME chemstain classic or white surfaces will likely result. Concrete that has carbonated at the surface may not react properly with this product. If surface carbonation is present it should be removed mechanically. Acid etching is not advised.

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.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

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 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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