



PRODUCT DATA SHEET

Sikafloor®-3S

LIQUID-APPLIED CONCRETE DENSIFIER

PRODUCT DESCRIPTION

Sikafloor®-3S is a one-component liquid sodium silicate surface densifier for application on existing concrete surfaces. In addition to its densifying action, its formulation reduces the porosity of concrete surfaces and it contributes to create a dust-free finish. Sikafloor®-3S is odourless, colourless, biodegradable and VOC compliant.

WHERE TO USE

Sikafloor®-3S may only be used by experienced professionals.

Use on any horizontal old or new concrete surface, interior or exterior where a hard, light to moderate abrasion resistant surface is required:

- Educational and medical facilities
- Warehouses and industrial plants
- Food-processing plants
- Stores and shopping malls
- Parking structures
- Gas stations
- Offices and multi-residential buildings

PRODUCT INFORMATION

CSC MasterFormat®	03 35 16 HEAVY-DUTY CONCRETE FLOOR FINISHING
Packaging	20 L (5.3 US gal.) pail and 200 L drum (53 US gal.)
Shelf Life	2 years in original, unopened container.
Storage Conditions	Store at temperatures between 5 °C to 32 °C (41 °F to 89 °F). Protect from freezing. If frozen, discard.
Appearance / Colour	Clear

CHARACTERISTICS / ADVANTAGES

- Ready-to-use
- Easy to apply
- Non-yellowing
- Good penetration
- Colourless and odourless.
- VOC Content: 0 g/L
- Improved chemical and abrasion resistance
- Reduced dusting on lower quality concrete floors
- Complies with current environmental, health and safety regulations

APPROVALS / CERTIFICATES

Meets the requirements of CFIA and USDA for use in food plants.

Density ~1.2 kg/L (~0.70 lb/US gal.)

pH-Value ~11.7

TECHNICAL INFORMATION

Abrasion Resistance ~35 % increase in abrasion resistance (ASTM D4060)
(Wheel H-22/1000 g / 500 cycles)

Water Absorption Not a vapour barrier (ASTM E 96)

Yield 4 m²/L to 6 m²/L (163 ft²/US gal. to 244 ft²/US gal.) depending on porosity of substrate

Ambient Air Temperature 5 °C to 35 °C (41 °F to 95 °F)

Substrate Temperature 5 °C to 35 °C (41 °F to 95 °F)

Drying time 4 hours to 6 hours following removal of excessive residue at 23 °C (73 °F)

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

Properties tested at 23 °C (73 °F) and 50 % R.H. unless stated otherwise.

LIMITATIONS

- Sikafloor®-3S should not be applied as a curing compound.
- Failure to thoroughly wash and remove all excess material from floor surfaces may result in unsightly white stains.
- Keep from freezing.
- Not effective on lightweight, extremely porous or worn concrete.
- Sikafloor®-3S is a colourless solution that will not alter the appearance of the concrete surfaces, therefore, it will not hide serious staining or excessive wear.
- Concrete less than 3 days to 7 days old may contain excess moisture that will inhibit Sikafloor®-3S penetration into the concrete surface and affect its ultimate effectiveness.
- For best results, concrete floors should be treated with liquid floor hardener at least 7 days to 14 days after placement or after the cement has had sufficient time to hydrate.
- Do not apply to areas previously treated with membrane forming sealers unless these sealers have been completely removed.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling,

storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

SUBSTRATE PREPARATION

The concrete surface must be clean and sound. Remove any dust, laitance, grease, oil, dirt, curing agents, impregnations, wax, foreign matters, coatings and disintegrated material from surface.

APPLICATION

Stir well prior to use, ensuring thorough agitation and distribution of any settled material throughout the liquid. Where necessary, use a paint straining mesh or fabric to collect any material which has formed a surface skin; the presence of which is a consequence of reaction during packaging and is not representative of any reduction in product quality.

Apply directly from container, one undiluted uniform coat at the rate of 4 m²/L to 6 m²/L (163 - 244 ft²/US gal.), depending on porosity of concrete. To ensure maximum penetration, scrub material into the surface with a stiff-bristle broom or janitorial floorscrubbing machine within 30 minutes of initial application and before the product begins to gel or become slippery. Once the product begins to gel, wet material lightly with a water spray and rework it into the surface. After this process, rinse the floor and remove any excess material with a squeegee and wet vacuum. This final step is important, because residue is more difficult to remove if it is allowed to dry. This residue solution is non-toxic and can be emptied into a sanitary sewer.

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November 2021, Version 01.01

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BUILDING TRUST
CONSTRUIRE LA CONFIANCE



Normally, one (1) coat is sufficient, however, on porous rough-textured, or broom-finished surfaces, a second application may be required. The second application can be installed 2 hours to 4 hours following the first and is recommended to insure maximum densification and positive protection from contaminant penetration. Floors are immediately available for occupancy and traffic after 4 hours to 6 hours following removal of excessive residue.

CLEAN UP

Immediately wash off over-spray from glass, aluminium, or highly polished surfaces with water to avoid etching of surfaces. Flush equipment with water to clean. Do not allow Sikafloor®-3S to dry before flushing excess from surfaces.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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