

PRODUCT DATA SHEET

Sikafloor® CC 700

(formerly MTop CC 700)

Concrete Hardener and Dustproofers

DESCRIPTION

Sikafloor® CC 700 is a magnesium-fluorosilicate concrete hardener and dustproofers that bonds chemically with the concrete to strengthen and harden floors that are porous, readily absorptive, and only moderately hard.

USES

Suitable for warehouses, dairies, aircraft hangers, bakeries, commercial garages, canneries, chemical installations, laundries, hospitals, textile mills, breweries, industrial plants, schools, Computer rooms;

Location: Interior and exterior

Substrate: Concrete

CHARACTERISTICS / ADVANTAGES

Concrete hardener

Strengthens floors that are porous, readily absorptive, and only moderately hard.

Idea for aged concrete surfaces

100% reactive with the free lime in concrete

Produces a breathable, dense, abrasion-resistant surface

Tightly binds together the cement, sand and aggregate particles

Improves resistance to most acids, alkalis, organic and inorganic chemicals, oils, greases

Nonfilm forming

Reduces cleaning and maintenance costs for floors

APPROVALS / STANDARDS

T.B.D

PRODUCT INFORMATION

Packaging	30kg /Pail
Shelf Life	15 months
Storage Conditions	Store in original, unopened containers in cool, dry area. Protect from freezing in the container; do not store below 20°C.
Appearance / Colour	Clear liquid

APPLICATION INFORMATION

Consumption

Type of Surface	(m ² /l)(Mixed Material)	Applications	Dilution Ratio (by volume) water to Sikafloor® CC 700	Ratio
Light to moderately troweled floors	(2.45)	2	1 to 1 first 1 to 2 second	1.17
Heavy-duty or densely troweled floors	(2.45-7.35)	2	3 to 1 first 1 to 2 second	0.92
Rough finished floors	(2.45)	2	3 to 1 first 1 to 2 second	1.17
Terrazzo (nonresin based)	(7.35)	2	3 to 1 first	0.50
Concrete polished sheen	(4.9-7.35)	3	4 to 1 first 3 to 1 second 2 to 1 third	0.78

To estimate the quantity of Sikafloor® CC 700 needed for an application, divide the area of the floor by the coverage rate (m²/L) of mixed material. Multiply this number by the ratio (in last column).

Example: 1,000m² floor, moderately troweled: $1,000 \div 2.45 = 408\text{L}$ mixed material $\times 1.17 = 477.5\text{L}$ of Sikafloor® CC 700 needed.

Recommendations for the number of applications and the dilution ratios are based upon average conditions. Coverage varies with application method, porosity, and texture of concrete.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTS

- The number of applications and dilution ratios for Sikafloor® CC 700 are dependent on the porosity and density of the concrete. Refer to coverage chart. Two applications of Sikafloor® CC 700 are generally required on concrete and nonresin based terrazzo floors. Woodfloated, broom finished, or porous floors may require a third application applied full strength.
- Apply Sikafloor® CC 700 by roller, spray, brush, or squeegee. Bubbling indicates activation of the Sikafloor® CC 700 into the concrete. Distribute evenly and mop up excess solution or puddles. Composition Sikafloor® CC 700 is a magnesium fluoro-silicate hardener.
- In event of freeze/thaw, warm and restir to uniformity. If separation is persistent, discard Sikafloor® CC 700 -Do Not Apply
- When mixing or handling Sikafloor® CC 700 in other than the original sealed container, use a plastic bucket
- Small amounts of sediment or a cloudy appearance in the container will not affect product performance
- Do not apply to uncured concrete; concrete must be properly wet cured

- Do not apply MasterTop Sikafloor® CC 700 to floors that have been previously sealed or treated with curing and parting compounds unless these products have been chemically or mechanically removed
- Sikafloor® CC 700 can be used for exteriors. If the surface has been steel troweled, however, traffic can polish the surface and make it slippery
- Although Sikafloor® CC 700 is chemically resistant, its application in specific chemical environments should be checked with Technical Service
- For resilient tile applications, conduct an adhesion test
- Never use Sikafloor® CC 700 with plastic concrete or mortar or resin-based terrazzo mixes
- Sikafloor® CC 700 will not salvage honeycombed or structurally unsound surfaces
- Do not allow Sikafloor® CC 700 to dry on terrazzo (resin-based) floors except as indicated in application instructions
- Do not allow Sikafloor® CC 700 to come in contact with any glass, fabric, metal, or painted surfaces. Immediately wipe contaminated surfaces with clean water-saturated cloth, then wipe dry with a second clean cloth
- For subsequent coatings applications, perform proper surface preparation and consult the coating manufacturer for more instructions
- When a curing compound must be applied to freshly placed concrete, use a non-film-forming curing compound; consequently, somewhat less than the recommended 2 applications of Sikafloor® CC 700 will sufficiently harden the concrete

- Make certain the most current versions of product data sheet and MSDS are being used
- Proper application is the responsibility of the user. Field visits by our personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the job-site

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- New concrete must be thoroughly dry and cured a minimum of 10 days; for best results cure for a full 28 days.
- Surfaces must be clean, dry, and free of all loose dirt, oil, wax, sealers, curing and other compounds, and other foreign matter or carbonation.

APPLICATION

Concrete

After the first application, allow the floor to dry until no longer visibly wet.

If crystals develop during the second application, flush the surface liberally with clean water, preferably hot. At the same time, rapidly brush the floor with a stiff-bristled broom. Then mop up excess water and allow the surface to dry.

Concrete, Polished Sheen

To achieve the appearance of a polished sheen from traffic, use 3 applications of Sikafloor® CC 700. The first is diluted 4 to 1 (water to Sikafloor® CC 700), the second is diluted 3 to 1, and the third is diluted 2 to 1 (see Yield section).

As the last application is drying, wait for the uniform appearance of white crystals. Flood the floor with water and buff with a commercial floor buffer abrasive pad. Continue buffing until the floor acquires a patina or polish and the whiteness is gone.

The above recommendation is for dense, steel-troweled floors. Older or more porous concrete may require less dilution or a lower coverage rate or more than 3 applications.

Caution: Unusually wet or oily environments will be more slippery with this surface treatment.

Terrazzo (Non-Resin Based)

Do not allow the first application to dry.

While the surface is still damp, flush it thoroughly with clean hot water and then allow it to dry until no longer visibly wet. For the second application, follow the same procedure but mop up excess wash water and allow the surface to dry.

White crystals developing after the first or second application signifies too strong a mix or the surface reaching maximum hardness. If this occurs, stop the application and flush the surface with clean, hot water; broom with a stiff bristle broom, and allow to dry. If any applications remain, increase the dilution ratio to avoid further problems.

CLEANING OF TOOLS

Clean all tools and equipment with water immediately after use. Dispose of unused material according to local regulations.

MAINTENANCE

CLEANING

- Routine sweeping and washing of floors with mild conventional cleaners and detergents is recommended.
- Remove all abrasive grit and wipe up corrosive spills as soon as possible.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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Product Data Sheet

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