

PRODUCT DATA SHEET

Sikafloor® SynTop-103

(formerly MTop 103)

Emery based concrete surface hardener

DESCRIPTION

Sikafloor® SynTop-103 is a premixed, ready to use powder, designed for application as a dry shake over a freshly floated concrete floor or floor screed, to obtain a monolithic floor with substantial improvement in its abrasion resistance. The product is based on selected hard wearing emery aggregates and hydraulic binders.

USES

Sikafloor® SynTop-103 may only be used by experienced professionals.

Sikafloor® SynTop-103 is recommended for treating floor areas not exposed to serious chemical attack and where increased abrasion resistance is desired. Applications include:

- Factories and workshops
- Basements and cellars
- Stores, warehouses and loading platforms
- Corridors, halls
- Ramps, stairs and parking areas

PRODUCT INFORMATION

Packaging	25 kg bag
Shelf life	12 months from date of production if stored properly in original, unopened, and undamaged sealed packaging
Storage conditions	Stored in dry conditions at temperatures between +5 °C and +30 °C.
Appearance and colour	Powder / Natural (Concrete Grey)

FEATURES

Excellent abrasion resistance	Durable floor. Saves frequent maintenance expenditure
Dense surface	Increased resistance to ingress of oil and grease. Easy to clean
Non metallic	No rusting or discolouration of surface

APPLICATION INFORMATION

Consumption

The rate of application will depend on the service conditions to which the floor will be exposed. The recommended rates of application are as below:

Loading Condition	Consumption
Light traffic to medium traffic	2 - 3 kg/m ²
Medium traffic to heavy traffic	3 - 4 kg/m ²

BASIS OF PRODUCT DATA

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

ECOLOGY, HEALTH AND 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.

APPLICATION INSTRUCTIONS

APPLICATION

Preparation

Use a concrete mix of a minimum of 20 N/mm² (30 N/mm² for heavy duty traffic), with a slump of 75 mm or less and maximum 3% entrained air. The design and construction of the floor should be adequate to withstand the traffic, impact and such other loads the floor is likely to be exposed to.

Place concrete and consolidate with vibrators if necessary. Strike off concrete level. Further level and consolidate using a wooden bull float or wooden darby. Complete this operation before any bleed water appears. Remove any bleed water on the surface just prior to floating by dragging a rubber hose over the surface.

First float the concrete surface adjacent to forms, columns, pits, doorways and walls, where the concrete is likely to lose moisture rapidly, using a hard wood or a mechanical float. Float the overall area as soon as concrete can bear the weight of a finisher and a light trowelling machine equipped with float blades without digging in.

Placing

Sikafloor® SynTop-103 should be applied in two layers by broadcasting by hand. Approximately two-thirds of the total quantity should be applied in the first broadcast and the remaining balance in the second.

First shake-on application

Mark the floor area into bays of convenient size and keep the required number of bags of Sikafloor® SynTop-103 ready for each bay, depending on the rate of application specified. If applying manually, transfer the powder to pails of a size convenient for handling. Broadcast the powder evenly by hand, allowing it to sift through gloved fingers to obtain a uniformly thick application, after the evaporation of bleed water. Do

not throw or broadcast with a shovel.

After the applied Sikafloor® SynTop-103 darkens in colour indicating absorption of moisture from the concrete and when the concrete has stiffened enough to prevent the float blades from digging into the surface, float the applied surface using wooden hand floats or power floats. Float just enough to bring the excess moisture to the surface.

Second shake-on application

Follow with the second application of Sikafloor® SynTop-103 as the first application proceeds to next bay. Broadcast the remaining third of Sikafloor® SynTop-103 evenly by hand, compensating with extra material over areas under-applied during the first broadcast. As soon as the second layer has darkened by moisture absorption, float the surface with a power trowel equipped with float blades or disc floats. If a coarse non slip surface is desired, start curing without any more finishing operations.

Finishing

The extent of further floating or trowelling depends upon the finish desired on the surface. For obtaining a medium, non slip finish, power float the surface for the third or fourth time depending on the setting characteristics of concrete.

For obtaining a fine non slip finish, trowel the surface after it stiffens further using a hand or power trowel keeping the blades as flat as possible without digging in the surface.

For a superior smooth finish, trowel again after further stiffening of the surface with slightly raised blades, but avoid raising them to an angle that creates chatter marks or blisters on the surface. If either start to appear, remove them by reducing the angle of trowel. When only a little paste starts clinging to the trowel blade, finish with a final trowelling with raised blades. Remove any pinholes and trowel marks by hand trowel.

Note: During hot, dry or windy conditions, trowelling should be kept to the minimum to obtain the required finish. Start early curing to prevent damage to the floor from rapid drying.

CURING TREATMENT

Start curing immediately after final finishing using appropriate curing method.

Protection

Barricade the area after the application of curing compound. Immediately after the curing compound dries, cover the floor surface to protect it from staining, discolouration, or physical damage.

CLEANING OF EQUIPMENT

Clean the tools and equipment with water before the paste sticking to them hardens.

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 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.

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