

## PRODUCT DATA SHEET

# Sikafloor®-2 SynTop-2

### NON-RUSTING HARD AGGREGATES DRY SHAKE FLOOR HARDENER

#### DESCRIPTION

Sikafloor®-2 SynTop-2 is one part, preblended, synthetic dry shake hardener for concrete comprising of cement, hard corundum aggregate, and compatible admixtures.

#### USES

Sikafloor®-2 SynTop-2 may only be used by experienced professionals.

- Sikafloor®-2 SynTop-2 provides a hard wearing, dry shake topping for monolithic floors. When sprinkled any trowelled into fresh wet concrete floors, it forms a wear resistant smooth surface.

- Typical users are in warehouses, distribution centers, factories, industrial facilities, aircraft hangars, DIY stores, supermarkets, shopping malls, offices and museums.

#### CHARACTERISTICS / ADVANTAGES

- Very high wear resistance
- Impact resistance
- Cost effective, long life floor
- Maintenance free
- Slip resistance surface possible
- Dust proof
- Increased resistance to oils and grease

#### PRODUCT INFORMATION

<b>Packaging</b>	20 kg bag
<b>Appearance / Colour</b>	Powder / Natural
<b>Shelf life</b>	9 months from date of production if stored in undamaged original sealed containers
<b>Storage conditions</b>	Store in dry conditions at temperatures between +5 °C and +30 °C.

#### TECHNICAL INFORMATION

<b>Abrasion Resistance</b>	510
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#### APPLICATION INFORMATION

<b>Consumption</b>	~5 kg/m <sup>2</sup> - 12 kg/m <sup>2</sup>
<b>Ambient Air Temperature</b>	+5 °C Min, +35 °C Max
<b>Relative Air Humidity</b>	Rel. air-humidity : minimum 30% ; maximum 98% Watch out for efflorescence at low humidity. Watch out for slow bleeding, slower curing and hardening and slower power-floating operations at high humidity

## Applied Product Ready for Use

Substrate temperatur	Foot trafic	Fully serviceable
+10 °C	18 h	10 d
+20 °C	12 h	7 d
+30 °C	8 h	5 d

The above values are dependant upon the concrete reaching its design strength for serviceability and will be affected by changing ambient conditions.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

The concrete deliveries should be of consistent quality. A concrete slump in the range 75 to 110 mm will normally give best results. The slab should be of good quality concrete with a minimum water / cement ratio consistent with the production of a fully compacted slab. The compressive strength should be a minimum of 25 N/mm<sup>2</sup>. Use of Sikament or Sika ViscoCrete super-plasticizers is advised to ensure the optimum quality of concrete and where fibres are used, their optimum dispersion within the mix.

### APPLICATION

Automatic spreader in conjunction with a laser screed: Spread Sikafloor®-2 SynTop-2 evenly onto the concrete immediately after screeding at 5 kg/m<sup>2</sup> (example consumption) in one application.

#### Manual application:

Allow the surface "bleed" water to evaporate. Sprinkle Sikafloor®-2 SynTop-2 onto the screeded concrete evenly in 2 stages.

(first stage: 3 kg/m<sup>2</sup>, second stage: 2 kg/m<sup>2</sup>) (Example consumption)

Care should be taken to apply the powder to avoid creating ripples etc. in the concrete surface. Overall application rate 5 kg/m<sup>2</sup>. Casting Sikafloor®-2 SynTop-2 powder carelessly or further than 2 metres from point of casting will reduce the consistency of finish.

#### Compaction:

The first application should be worked into the slab followed immediately by application of the second stage of Sikafloor®-2 SynTop-2.

#### Curing:

Cure and seal Sikafloor®-2 SynTop-2 immediately after finishing using Sikafloor-ProSeal-22 (refer to separate data sheet).

#### Application time

Application time for dry-shake products is influenced by every variable which affects the placing of concrete, and will vary greatly depending on the particular conditions.

For mechanical application with automatic spreader and laser screed, the spreading can start almost immediately after concrete has been levelled to allow for the hydration of the dryshake. Compaction with the trowel can start as soon as weight of the power trowels is supported by the concrete.

For manual application, the dryshake must be spread once the concrete can be stepped on, without leaving a print deeper than 3 - 5 mm.

Periodical checking of the condition and development of the concrete will determine the correct time frame for each stage and sequence of application.

### CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use.

Hardened/ cured material can only be mechanically removed.

### LIMITATIONS

- Sikafloor®-2 SynTop-2 results in the slab surface becoming stiff more quickly than usual. Careful trimming should take place along the edges where adjoining slabs are to be poured.
- Final finishing to close pores and remove undulations can be achieved either by hand or powered trowel.
- Never add water to the surface where the dry-shake has been applied.
- The application of the dry shake powder should not be carried out in strong draughts.
- Dry shake hardeners give a finish to concrete with some colour variation from point to point due to the natural variability of the concrete onto which they are applied.
- Slip resistance can be enhanced through chemical ageing.

### 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.

### LOCAL RESTRICTIONS

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

### 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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## 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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