

## PRODUCT DATA SHEET

# Sikafloor® SynTop-410

(formerly MTop 410 (IN))

High performance non-metallic aggregate surface hardener

### DESCRIPTION

Sikafloor® SynTop-410 is a non-metallic floor hardener, which contains specially graded nonmetallic hard wearing natural aggregates. It is applied as a dry shake over freshly floated concrete to provide a durable, non-slip monolithic floor.

### USES

Sikafloor® SynTop-410 may only be used by experienced professionals.

- Factories, workshops, showrooms, food and beverage processing areas, where a durable, non-rusting, non-slip floor is required to withstand moderate to heavy traffic
- Providing a durable, non-slip surface on ramps, stairs, landings etc. under wet or dry conditions
- Freezers & chillers with forklift traffic
- Sikafloor® SynTop-410 is not recommended for use in areas where floor surface will be exposed to acids, their salts or materials which seriously and rapidly attack concrete. For applications under these service conditions consult Sika Technical service.

### CHARACTERISTICS / ADVANTAGES

- High abrasion and impact resistance – Long service life
- Better abrasion resistance than plain concrete – Extended service life
- Non rusting – Suitable for wet environments
- Non-slip – Improved safety for personnel and forklifts in wet environments.
- Dense surface – Resists oil and grease penetration
- Coloured surface – Can create aesthetically pleasing environment
- Easy application at time of placing concrete – Floor available for full service once concrete is cured.
- Able to applied at higher ambient temperatures – Wide application range

### PRODUCT INFORMATION

<b>Packaging</b>	25 kg bag	
<b>Shelf life</b>	12 months from date of production	
<b>Storage conditions</b>	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +30 °C	
<b>Bulk density</b>	1.5 ± 0.1 kg/l at +27 °C	
<b>Abrasion resistance</b>	0.34mm at 60 minutes (33MPa concrete more than 1.4mm at 60 minutes)	(ASTM C779)
<b>Surface hardness</b>	Between 8 and 9 (Moh's scale)	(IS:13630 Part 13)

## APPLICATION INFORMATION

Consumption	Application	Consumption
	Light duty	3.0–5.0 kg/m <sup>2</sup>
	Medium duty	5.0–6.0 kg/m <sup>2</sup>
	Heavy duty	6.0–8.0 kg/m <sup>2</sup>
Note: Sikafloor®-931 Finishing Aid is a colloidal silica based densifier is recommended in case consumption is more than 5kg/sqm		
Layer thickness	2.5–3.0 mm at dosage of ~5.0 kg/m <sup>2</sup>	
Ambient air temperature	+5 °C min. / +35 °C max.	
Relative air humidity	30% min. / 98% max.	
Substrate temperature	+5 °C min. / +35 °C max.	
Applied product ready for use	Foot Traffic	Fully serviceable
	~72 hours	~7 days
The above values are at substrate temperature of +27 °C and dependant upon the concrete reaching its design strength for serviceability and will be affected by changing ambient conditions, particularly temperature and relative humidity.		

## 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.

## USES

- The application of the dry shake powder must not be carried out in strong wind or in dry conditions.
- Variations in concrete characteristics such as water content and cement may lead to slight colour variations.
- Dry shake hardeners give a finish to concrete with some colour variation across the floor due to the natural variability of the concrete onto which they are applied.
- To ensure optimum colour consistency, it is essential that the floor laying operation is as clean and protected from the environment as possible.
- Colour variation during the drying out period is normal for this system and is to be expected.
- Every effort must be made to ensure an even application of Sikafloor® SynTop-410. Correct timing and trowelling techniques are essential.
- At low relative humidities, efflorescence can appear on the surface.
- At high relative humidities, bleeding, slower curing and hardening can occur and extended finishing operations be required.
- For mechanical application, use automatic spreader in conjunction with a laser screed and spread Sikafloor® SynTop-410 evenly onto the concrete immediately after screeding in one application.
- After application, do not expose such concrete surface to water and protect from rain or contaminants.

## 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.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

- The concrete deliveries must be of consistent quality. A concrete slump in the range 75 to 110 mm will normally give best results.
- The slab must be of good quality concrete with a minimum water/cement ratio consistent with the production of a fully compacted slab.
- The compressive strength must be a minimum of 20 N/mm<sup>2</sup>.
- Use of Sikament® or Sika® Viscocrete® super plasticisers is advised to ensure the optimum quality of concrete and where fibers are used, their optimum dispersion within the mix.
- Air Entrained Concrete is not a suitable substrate for the application of dry shake hardeners.

## APPLICATION

Application time for dryshake products is influenced by every variable which affects the placing of concrete, and can therefore vary substantially, depending on the prevailing conditions.

Dependent on the conditions, remove the surface bleed water or allow it to evaporate. Sprinkle Sikafloor® SynTop-410 onto the screed concrete evenly in 2 stages, first stage 60% and second stage 40%. Care must be taken to apply the product without creating ripples etc. in the concrete surface. The first application must be worked into the slab immediately followed by application of the second stage quantity of Sikafloor® SynTop-410. Final finishing, closing pores and removing undulations can be achieved either by hand or powered trowel.

### Please also note:

- Never add water to the surface where the dry shake has been applied.
- Sikafloor® SynTop-410 results in the slab surface becoming stiff more quickly than usual. Careful trimming must take place along the edges where adjoining slabs are to be poured.

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

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

## MAINTENANCE

### CLEANING

To maintain the appearance of the floor after application, Sikafloor® SynTop-410 must have all spillages removed immediately and must be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques, etc., using suitable detergents and waxes.

### 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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#### Product Data Sheet

Sikafloor® SynTop-410  
September 2024, Version 02.01  
020815010020000020

SikafloorSynTop-410-en-IN-(09-2024)-2-1.pdf