

# PRODUCT DATA SHEET

## Sikafloor®-3 QuartzTop GR

COLOURED MINERAL DRY SHAKE FLOOR HARDENER



### DESCRIPTION

Sikafloor®-3 QuartzTop GR is a one part, preblended, coloured mineral dry shake hardener for concrete comprising of cement, specially selected quartz mineral aggregates and admixtures.

### USES

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

- Sikafloor®-3 QuartzTop GR provides a hard wearing, mineral dry shake topping for monolithic floors. When sprinkled and trowelled into fresh wet concrete floors, it forms a wear resistant smooth surface.
- Typical uses are in warehouses, factories, shopping malls, where wear durable and wear resistant floor is the key requirement.

### CHARACTERISTICS / ADVANTAGES

- Medium wear resistance rating
- Impact resistance
- Dust proof
- Cost effective surface hardener
- Fast application
- Increased resistance to oils and grease
- Quality assured factory blending
- Easy cleaning
- Wide range of colours

### APPROVALS / CERTIFICATES

Cementitious floor screed material according to EN 13813:2002, Declaration of Performance 95950231, and provided with CE-mark.

### PRODUCT INFORMATION

<b>Chemical base</b>	Quartz graded aggregates mixed with cement modified with special chemicals.
<b>Packaging</b>	25 kg bags
<b>Appearance / Colour</b>	Powder / Grey Other colours upon request
<b>Shelf life</b>	12 months from the date of production
<b>Storage conditions</b>	Store properly in original, sealed, undamaged packaging, in cool and dry conditions, at temperatures between +5°C and +35°C. Protect from moisture.
<b>Bulk Density</b>	1.65 ± 0.10 kg/lt (at +20°C)

### TECHNICAL INFORMATION

<b>Abrasion Resistance</b>	AR1 (BCA method, EN13892-4)
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## SYSTEMS

### System Structure

Use products mentioned below as indicated in their respective Product Data Sheets:

<b>Substrate</b>	Fresh concrete slab (See Substrate Quality below)
<b>Dryshake</b>	Manual or machine application of Sikafloor®-3 QuartzTop GR. Levelling of surface by means of power trowel or laser screed. Final smoothing with power trowel.
<b>Curing compound</b>	Sikafloor® ProSeal-22, Sikafloor® ProSeal-W, Antisol® S

## APPLICATION INFORMATION

<b>Consumption</b>	~4- 5 kg/m <sup>2</sup>			
<b>Ambient Air Temperature</b>	+5°C min. / +35°C max.			
<b>Relative Air Humidity</b>	30% r.h. min. / 90% r.h. max.			
<b>Substrate Temperature</b>	+5°C min. / +30°C max.			
<b>Applied Product Ready for Use</b>	Substrate temperature	+10°C	+20°C	+30°C
	Foot traffic	~ 18 hours	~ 12 hours	~ 8 hours

The above values depend on the concrete reaching its design strength for serviceability and will be affected by changing ambient conditions, particularly temperature and relative humidity.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

The concrete deliveries must be of consistent quality and meet the requirements of EN 206-1. Concrete characteristics are specified by its class determined in the static design and by general recommendations for concrete mixture formulation. Typical concrete classes for reinforced concrete floors are specified minimally as C20/25 (B25) or C25/30 (B30), exceptionally even as C30/37 (B35). Use of Sikament® or Sika® ViscoCrete® superplasticisers is advised to ensure the optimum quality of concrete and where fibres are used, ensure their optimum dispersion within the mix. Air Entrained Concrete is not a suitable substrate for the application of dryshake hardeners.

### APPLICATION

**Mechanical Application - Automatic spreader in conjunction with a laser screed:** Spread 4-5kg/m<sup>2</sup> in one application immediately after screeding and allow slab to stiffen. Then power float repeatedly in order to achieve the final finish.

**Manual Application:** Dependent on the conditions, remove the surface bleed. Sprinkle Sikafloor®-3 QuartzTop onto the screeded concrete evenly in 2 stages (first stage: ~3 kg/m<sup>2</sup>; second stage: ~2 kg/m<sup>2</sup>). Care must be taken to apply the product without creating ripples e.t.c. on the concrete surface. Casting Sikafloor®-3 QuartzTop GR carelessly or more than 2

metres far from the point of casting will reduce the consistency of finish.

Do not add water during application.

Final finishing to close pores and remove undulations can be achieved either by hand or powered trowel.

### CURING TREATMENT

Cure and seal Sikafloor®-3 QuartzTop GR immediately after finishing using any of the products in the Sikafloor® ProSeal range or Sika® Antisol® S. (refer to respective Product Data Sheets).

Sealers additionally harden surface, decrease dust formation and reduce liquid absorption.

#### Joints:

After finishing operations and completing saw cuts, clean off any residual saw lubricant / slurry without delay. Joints can be filled with Sikaflex® PRO-3 or other suitable Sikaflex® sealant in accordance with the floor design requirements.

### CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened / cured material can only be mechanically removed.

## MAINTENANCE

### CLEANING

To maintain the appearance of the floor after application, all spillages must be removed immediately and the floor must be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques, e.t.c., using suitable detergents and waxes.

For more information please refer to Method Statement for cleaning and maintenance of Sikafloor® Dry Shake Hardeners.

### IMPORTANT CONSIDERATIONS

- Never add water to the surface where the dryshake has been applied.
- Sikafloor®-3 QuartzTop GR results in making the slab surface stiff quicker than usual. Careful trimming must take place along the edges where adjoining slabs are to be poured.
- 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. 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. The trowelling with blades 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 - 5mm. Periodical checking of the condition and development of the concrete will determine the correct time frame for each stage and sequence of application.
- The application of the dry shake powder must not be carried out in strong wind or in dry conditions.
- Do not use concrete where some cement has been replaced by fly ash, as this makes the mix sticky and less workable.
- 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 of colour consistency, it is essential that the floor laying operation is as clean and protected from the environment as possible.
- During the floor treatment process with mechanical means, there is the possibility that mechanical parts of the smoothing equipment might abrade and consequently result in the creation of micro-spills of rust or oil. The use of quality and properly maintained machinery is recommended. In any case, micro-spills caused by this do not adversely affect the technical performance of the floor as this is purely an aesthetic phenomenon.
- 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 applica-

tion of Sikafloor®-3 QuartzTop GR. Correct timing and trowelling techniques are essential.

- At low relative humidity (below 40%), efflorescence can appear on the surface.
- At high relative humidity (above 80%) and low temperature, bleeding, slower curing and hardening can occur and extended finishing operations be required.
- Refer to the Method Statement for Application for details.
- Shrinking joints are to be created within two days. Expansion joints are reflected in the surface of the floor.
- As a consequence of repeated power trowelling, which brings tension into the surface, fine cracks may appear on the floor. This observable fact is typical for all power trowelled concrete surfaces and does not have negative impact on the floor performance.

### 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.

### 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.

### 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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Product Data Sheet  
Sikafloor®-3 QuartzTop GR  
May 2018, Version 03.01  
020815010030000054

Sikafloor-3QuartzTopGR-en-GR-(05-2018)-3-1.pdf