

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 onto 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

CE Marking and Declaration of Performance to EN 13813 - Screed material and floor screeds. Class CT-C70-F7-AR1

PRODUCT INFORMATION

Product declaration	CE Marking and Declaration of Performance as Cementitious floor screed material, CT-C70-F7-AR1, according to EN 13813:2002, based on type testing and factory production control.
Composition	Quartz graded aggregates mixed with cement, modified with special chemicals.
Packaging	25 kg bag
Shelf life	12 months from the date of production
Storage conditions	Product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost. Always refer to packaging.
Appearance and colour	Powder / Grey Other colours upon request
Bulk density	1,65 ± 0,10 kg/lt (at +20°C)

TECHNICAL INFORMATION

Abrasion resistance	AR1 (BCA method)	(EN13892-4)
---------------------	------------------	-------------

SYSTEM INFORMATION

System structure	Use products mentioned below as indicated in their respective Product Data Sheets:		
	Substrate	Fresh concrete slab (See Substrate Quality below)	
	Dryshake	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.	
	Curing compound	Sikafloor® ProSeal-22, Sikafloor® ProSeal-W, Antisol® S.	

APPLICATION INFORMATION

Consumption	~ 3,0-5,0 kg/m ² The consumption will depend on application method and the concrete mix (w/c ratio). This figure does not allow for surface profile and wastage.			
Ambient air temperature	min. +5 °C / max. +35 °C			
Relative air humidity	min. 30 % / max. 90 %			
Substrate temperature	min. +5 °C / max. +30 °C			
Applied product ready for use	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.				

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.

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 adjacent slabs are to be poured.
- Application time for dryshake products is influenced by every variable which affects 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 the hydration of the dryshake. Trowelling with blades can start as soon as weight of 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 setting development of concrete will determine the correct time frame for each stage and sequence of application.
- The application of 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 colour consistency, it is essential that the floor laying operation is as clean and protected from the environment as possible.
- During floor treatment process with mechanical means, it is possible that mechanical parts of smoothing equipment might abrade and con-

sequently result in the creation of micro-spills of rust or oil. The use of qualitative 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 application 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 are required.
- Shrinking joints are to be created within two days. Expansion joints are reflected in the surface of the floor.
- As a consequence of repeating 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 floor's performance.
- Refer to the recent Method Statement for more details.

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

Concrete batches, delivered on-site, must be of consistent quality and must comply with existing standards (e.g. EN 206-1).

Concrete characteristics are specified by its class and are determined in the design and by general recommendations for concrete mix design.

W/C-ratio must not be too low as some water is required for the hydration of Sikafloor®-3 QuartzTop GR. Generally, recommended w/c-ratios are between 0,45 and 0,55 and must be consistent while being poured. The compressive strength must be a minimum of 25 N/mm².

The use of SikaPlast® 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 dry shake hardeners.

APPLICATION

Mechanical Application - Automatic spreader in conjunction with a laser screed: Spread 4-5 kg/m² in one application immediately after screeding and allow slab to stiffen. Then power float repeatedly in order to

achieve the final finish.

Manual Application: Depending on the conditions, remove the surface bleed. Sprinkle Sikafloor®-3 QuartzTop onto the screeded concrete evenly in 2 stages (first stage: ~3 kg/m²; second stage: ~2 kg/m²). Care must be taken to apply the product without creating ripples e.t.c. on 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 harden surface additionally, decrease dust formation and reduce liquid absorption.

Joints:

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

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.

Sika Hellas ABEE

15 Protomagias Str.
14568 Kryoneri
Attica-Greece
Tel.: +30 210 8160 600
Fax: +30 210 8160 606
www.sika.gr | sika@gr.sika.com



Product Data Sheet

Sikafloor®-3 QuartzTop GR
February 2022, Version 04.01
020815010030000054

Sikafloor-3QuartzTopGR-en-GR-(02-2022)-4-1.pdf