

PRODUCT DATA SHEET

Sikafloor®-3 QuartzMeditop

MINERAL DRY SHAKE FLOOR HARDENER

DESCRIPTION

Sikafloor®-3 QuartzMeditop is one a part, pre-blended, is a one part, pre-blended, mineral dry shake hardener for concrete comprising of cement, specially selected quartz mineral aggregates.

USES

Sikafloor®-3 QuartzMeditop may only be used by experienced professionals. Sikafloor®-3 QuartzMeditop is suitable for surface finishing with dusting of industrial concrete floors subject to medium-intense traffic with special frictional stresses. Typical uses are in warehouses, factories, shopping malls, public areas, where wear durable and wear resistant floor is the key requirement. Also suitable for outdoor environments.

CHARACTERISTICS / ADVANTAGES

- Economical
- High wear resistance
- Suitable for internal and external area
- Easy application

APPROVALS / CERTIFICATES

Cement based screed CT-C70-F10-AR1,0 in according to EN 13813.

PRODUCT INFORMATION

Packaging	25 kg bags	
Appearance / Colour	dry quartz sand in grey color.	
Shelf life	12 months from date of production	
Storage conditions	Store in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C.	
Maximum Grain Size	~ 2,8 mm	
Abrasion Resistance	~ 87 µm - class AR 1,0 ~ 2 gr (H22/1000 giri/1000 gr)	EN 13892-4 - BCA Taber test
Compressive Strength	~ 45 MPa (at 24 h) ~ 72 MPa (at 28 days)	EN 13892-2
Tensile Strength in Flexure	~ 11 MPa	EN196-1
Tensile Adhesion Strength	~ 2,1 MPa	EN 1542
Reaction to Fire	Euroclass A1 fl	EN 13501-1

Penetration Depth	~ 3 mm	EN 12390-8
Water Absorption	~ 0,05 kg m ⁻² h ^{-0,5}	EN 1062-3
Consumption	~2–6 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	+5 °C min. / +35 °C max.	

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The concrete deliveries must be of consistent quality and comply with local standards. Concrete characteristics are specified by its class determined in the static design and by general recommendations for concrete mix design. W/c- ratio must not be too low as some water is required for hydration of the Sikafloor®-3 QuartzMeditop. 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. Use of Sikament® or Sika Viscocrete® super plasticisers is advised to ensure the optimum quality of concrete and where fibres are used, their optimum dispersion within the mix. Air Entrained Concrete is not a suitable substrate for the application of dry shake hardeners.

APPLICATION

Sikafloor®-3 QuartzMeditop is ready to be applied by broadcasting on fresh concrete floor to the quote of final level; the requested quantity of this product must be incorporated by means of usual means, by hand or by mechanical darby machine. Sikafloor®-3 QuartzMeditop must be used in a quantity varying from 2 to 6 kg for each m² and for each mm of thickness due to stress level on floor. As orientation, the consumption of Sikafloor®-3 QuartzMeditop is 2 kg for each m² for each mm of thickness. Never add water to the surface where the dry shake has been applied.

CURING TREATMENT

Cure and seal Sikafloor®-3 QuartzMeditop immediately after finishing using using a curing compound, Sikafloor® ProSeal W (Refer to relevant Product Data Sheet). The sealers additionally harden the surface, decrease dust 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 another appropriate Sikaflex® sealant in accordance with the floor design requirements.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be mechanically removed.

MAINTENANCE

CLEANING

To maintain the appearance of the floor after application, Sikafloor®-3 QuartzMeditop 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.

IMPORTANT CONSIDERATIONS

- The application of Sikafloor®-3 QuartzTop 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 of 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.
- At low relative humidity (below 40 %), efflorescence can appear on the surface.
- At high relative humidity (above 80 %), bleeding, slower curing and hardening can occur and extended finishing operations be required.
- 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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