

PRODUCT DATA SHEET

Sikafloor®-3 QuartzTop Design (IN)

Mineral dry-shake floor hardener for multi-layer application

DESCRIPTION

Sikafloor®-3 QuartzTop Design (IN) is a one-part, pre-blended, mineral dry-shake hardener with optional colouring for concrete. It comprises cement, specially selected quartz mineral aggregates, fibers and admixtures

USES

Sikafloor®-3 QuartzTop Design (IN) may only be used by experienced professionals.

Sikafloor®-3 QuartzTop Design (IN) is used as a: Mineral dry-shake topping for monolithic floors in industrial, commercial and public buildings

CHARACTERISTICS / ADVANTAGES

- Designed for multi-layer application
- Next grinding and polishing possible to achieve Dry-Shake Terrazzo look
- Cost-effective, high quality surface hardener
- Medium wear resistance rating
- Application with Sikafloor® -931 Finishing Aid decreasing the risks of delamination and shrinkage cracks
- Even surface color
- Dust-proof
- Easy to clean
- Quality-assured factory blending
- Wide range of colors available

PRODUCT INFORMATION

| | |
|---------------------------|---|
| Chemical base | Natural mineral aggregates graded and mixed with cement, fibers, admixtures and pigments |
| Packaging | 25 kg Refer to the current price list for available packaging variations |
| Colour | Pure white, Grey, Light Grey, Beige, Venetian white, Brown, Red, Yellow, Orange Please consult with Sika representative for other colours. |
| Shelf life | 12 months from date of production |
| Storage conditions | The Product must be stored in original, unopened, and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage. |
| Bulk density | 1.6 ± 0.1 kg/l at +27 °C |

TECHNICAL INFORMATION

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|----------------------------|--------|-----------|
| Abrasion resistance | AR 0.5 | (BS 8204) |
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APPLICATION INFORMATION

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|--------------------------------|---|
| Consumption | 5-9 kg/m ² Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. This consumption is valid for multilayer application together with Sikafloor® -931 Finishing Aid. Apply the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment. |
| Layer thickness | Maximum: 4.0 mm Minimum: 2.0 mm |
| Ambient air temperature | +5 °C min. / +35 °C max |
| Relative air humidity | Maximum: 98 % Minimum: 30 % |

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.

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

IMPORTANT

Poor finish due to unsuitable additives

A poor finish quality can result from using compactable dry-shake hardeners on concrete with unsuitable additives. The correct selection of additives to concrete is crucial for the concrete mix design. Contact Sika Technical Services for further advice.

1. Do not use air-entraining agents. Air-entrained concrete is not a suitable substrate for the application of dry-shake hardeners.
2. Do not use concrete where some cement has been replaced by fly ash, as this makes the mix sticky and less workable.
3. Use Sikament® or Sika Viscocrete® super plasticisers to ensure the optimum quality of concrete, and – where fibres are used –, their optimum dispersion within the mix.
4. Use Sikafloor® -931 Finishing Aid after the concrete placement to decrease the water evaporation. Refer to the relevant product datasheet.

The concrete deliveries must be of consistent quality and comply with local standards. The slab must be of good quality concrete with a water-cement ratio of between 0.47 and 0.55 and must be consistent while being poured. The compressive strength must be a minimum of 25 N/mm².

APPLICATION

IMPORTANT

Multi-layer application

- Multi-layer application is a patented system of Product application together with Sikafloor® -931 Finishing Aid.
- Don't use this application method without Sikafloor® -931 Finishing Aid .
- Don't replace Sikafloor® -931 Finishing Aid by any other product. Always refer to Sikafloor® -931 Finishing Aid Product datasheet.

Damaged finish due to excessive drying of the surface

Exposure to environmental conditions during application can cause cracking and color inconsistencies.

- Do not apply the Product in strong wind or draughts.
- Use Sikafloor® -931 Finishing Aid as a part of multi-layer application. Refer to the product datasheet
- Keep the floor laying operation as clean and protected from the environment as possible.

IMPORTANT

Poor finish due to uneven application

Poor application practices can result in an inconsistent finish.

- Ensure an even application of the Product and use correct timing and trowelling techniques.
- Follow the recommendation for multi-layer dry shake application

Low relative humidity below 40 %

Note: Efflorescence can appear on the surface at low relative humidity.

High relative humidity above 80 %

Note: Bleeding, slower curing and hardening can occur, and extended finishing operations may be required at high relative humidity.

Prevailing conditions affecting application time

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

Variability of concrete and low consumption causing colour variations

Note: Variations in concrete characteristics such as water content and cement quality in combination with low and not even application may lead to slight colour

variations.

Note: Colour variation during the drying period is normal for this system and is to be expected.

Note: Dry-shake hardeners give a finish to concrete with some color variation across the floor due to the natural variability of the concrete on to which they are applied.

Power trowelling tools

Note: Use plastic pans and plastic blades for dry shake application especially for light dry shake colors. Steel tools can cause the color changes and discolorations.

Cracking and user responsibility

Cracking, delamination, and micro spalling is reduced by Product formulation and way of its application but not eliminated. Repeated power trowelling brings tension into the surface and can result in fine cracks appearing on the floor.

The producer cannot be responsible for problems related to bad concrete formula, weather conditions, improper way of application, curing etc.

MECHANICAL APPLICATION: AUTOMATIC SPREADER IN CONJUNCTION WITH A LASER SCREED

Preconditions

The concrete has been cast, compacted and levelled. Start spreading about 4-6 kg / m² of the Product almost immediately after the concrete has been levelled, to allow for the hydration of the dry shake.

Apply a very fine spray mist coat of Sikafloor®-931 Finishing Aid in a single application ~25 m²/L = 40 gram/m² and then start the power-troweling process with a pan float.

Perform the final finishing using walk-on or ride-on power trowels repeatedly in two perpendicular directions to achieve the final surface appearance.

When there is not enough moisture from the base concrete, spray one additional application Sikafloor®-931 Finishing Aid 15-30 m²/l

MANUAL APPLICATION

Preconditions

- The concrete has been cast, compacted and levelled.
- After the concrete pour, right before the (bull) float process apply the Sikafloor®-931 Finishing Aid, a single application 45-55 grams/m² (25-20 m²/l) without producing puddles.
- Determine whether the concrete is ready for the dry-shake application process. Note This process can start once the concrete can be stepped on without leaving a print deeper than 5-15 mm.
- Trowel the surface of the concrete with power trowels. Note Compaction with the trowel can start as soon as the weight of the power trowels is supported by the concrete.
- Evenly scatter 60% of the required material on to the compacted and levelled concrete. The Product is applied in two stages (60 % + 40 %) or three stages (60% +30%+10%). The quantities applied in each

stage depend on the desired overall consumption and layer thickness. Note Casting the Product further than 2 metres from point of casting reduces the consistency of the finish. Apply the Product without creating ripples in the concrete surface.

- Spray a fine mist of Sikafloor®-931 Finishing Aid ~25 m²/L = ~40 gram/m² and power-trowel the surface with a pan float.
- Start applying the second layer. Spray a fine mist 25-30m²/L = 33-40 gram/m² of Sikafloor®-931 Finishing Aid over the second dry shake layer and immediately power float the surface with trowel pans.
- If the product applied in 3 steps, repeat the process including Sikafloor®-931 Finishing Aid application.
- If the dry shake doesn't get enough moisture from the subbase or you have difficulties to close the surface with pan, you can spray Sikafloor®-931 Finishing Aid ~25 m²/L = ~40 gram/m² and continue trowelling with pans. IMPORTANT Never add water to the surface where the dry shake has been applied. Sikafloor®-931 Finishing Aid is effective at high temperatures and even more when the air is dry.
- Start power trowel the surface with finishing blades. Spray fine mist Sikafloor®-931 Finishing Aid ~30-35 m²/L Perform the final finishing using blades repeatedly in two perpendicular directions to achieve the final surface appearance. Refer to System data-sheets and Method Statement of Sikafloor® EasyFinish CS -30 Sikafloor® Terrazzo CS -31/32 for detail information.

CURING TREATMENT

1. Cure and seal the Product immediately after finishing.
 2. Use the water-dispersed curing and sealing compound Sikafloor® ProSeal W or the solvent-based curing and sealing compound Sikafloor® ProSeal-22. Refer to the Product Data Sheet for details.
 3. In case of next surface grinding and polishing cover the surface with sheet of use water curing only
- #### **JOINTS**

After finishing operations and completing saw cuts, clean off any residual saw lubricant or slurry immediately.

1. Fill joints with Sikaflex® PRO-3 or another appropriate Sikaflex® sealant in accordance with the floor design requirements.

CLEANING OF TOOLS

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

CLEANING

To maintain the appearance of the floor after application, remove all spillages immediately. Regularly clean the floor using suitable detergents and waxes and equipment such as rotary brushes, mechanical scrubbers, scrubber dryers, high pressure washers, and wash and vacuum techniques.

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

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