

BUILDING TRUST

PRODUCT DATA SHEET Sikafloor®-3 QuartzTop Design

Polishable mineral dry-shake floor hardener for multi-layer application

PRODUCT DESCRIPTION

Sikafloor[®]-3 QuartzTop Design is a one-part, preblended, polishable mineral dry-shake hardener with optional coloring for concrete. It contains cement, specially selected quartz mineral aggregates, fibers, and additives.

USES

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

 Polishable mineral dry-shake topping for monolithic floors in industrial, commercial, and public buildings

CHARACTERISTICS / ADVANTAGES

- Designed for multi-layer application
- Consistent surface color
- Reduce the risks of delamination and shrinkage cracks by using Sikafloor[®]-931 Finishing Aid
- A terrazzo look can be achieved with subsequent grinding and polishing
- Polishable in 7 days
- Time and cost-efficient
- High wear resistance rating
- Dust-proof
- Easy to clean
- Quality-assured factory blending

PRODUCT INFORMATION

Chemical Base	Natural mineral aggregates graded and mixed with cement, fibers, additives, and pigments		
Packaging	55 lb. (24.9 kg) fill in paper bag		
Appearance / Color	Sikafloor [®] -3 QuartzTop Design is packaged in Gray and White.		
Shelf Life	12 months in original unopened container		
Storage Conditions	Store in original, unopened containers, in dry storage, between 41-86°F (5-30°C).		
Bulk Density	2.25 kg/m³ 140 lb./cu. ft.	(ISO 697) (ASTM D1895 Method B)	

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TECHNICAL INFORMATION

Abrasion Resistance	AR 0.5	BCA A (BS EN	brasion Resistance Test I 13892-4)
Compressive Strength	Cured 7 days at 73.4°F (23°C)	> 8,500 psi	(ASTM C 109)
	Cured 7 days at 73.4°F (23°C)	> 58 N/mm ²	(EN 13892-2)
	Cured 28 days at 73.4°F (23°C)	> 10,200 psi	(ASTM C 109)
	Cured 28 days at 73.4°F (23°C)	> 70 N/mm ²	(EN 13892-2)
Flexural Strength	Cured 28 days at 73.4°F (23°C)	> 1,450.4 psi	(ASTM D790)
	Cured 28 days at 73.4°F (23°C)	> 10 N/mm ²	(EN 13892-2)

APPLICATION INFORMATION

0.8-2 b./sq. ft. (4-10 kg/sq. m)		
Coverage 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. Apply Sikafloor®-3 QuartzTop Design to a test area to calculate the exact coverage for the specific substrate conditions and proposed application equipment.		
1/16-3/16 in. (1.6-4.7 mm)		
41-86°F (5-30°C)		
30-98 %		

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LIMITATIONS

Using Alternative Products for the Finishing Process

- This patented application system has a substantial risk of floor failure if these instructions are not followed or substitute products are used.
- Only use the products described in the application process.

Damaged Finish Due to Excessive Drying of the Surface

- Exposure to environmental conditions during application can cause cracking and color inconsistencies.
- Multi-layer application is possible with Sikafloor®-931 Finishing Aid only.

Do not apply Sikafloor[®]-3 QuartzTop Design in strong wind or draughts.

• Keep the floor laying operation clean and protected from the environment.

Poor Finish Due to Uneven Application

- Poor application practices can result in an inconsistent finish.
- Ensure an even application of Sikafloor[®]-3 QuartzTop Design and use correct timing and trowelling techniques.

Low Relative Humidity Below 40 %

• Efflorescence can appear on the surface at low relative humidity.

High Relative Humidity Above 80 %

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

Prevailing Conditions Affecting Application Time

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• Application time for dry-shake products is influenced



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Sikafloor®-3 QuartzTop Design June 2025, Version 01.01 020815010030000111 by many variables that affect the placement of concrete and can, therefore, vary substantially depending on the prevailing conditions.

Color Variations

- Variations in concrete characteristics, such as water content and cement quality, may lead to slight color variations.
- Low and uneven consumption of Sikafloor®-3 QuartzTop Design can increase color variations.
- Use plastic trowelling tools (pans and blades) to eliminate dark spots on the surface after finishing, especially when light colors are applied.
- Color variation during the drying period is typical for this system and is to be expected.
- Dry-shake hardeners give concrete a specific finish, with some color variation across the floor due to the natural variability of the concrete onto which they are applied.

Repeated Power Trowelling

- Repeated power trowelling brings tension to the surface and can result in micro-cracks on the floor. This is typical for all power-trowelled concrete surfaces and does not negatively impact floor performance.
- Using Sikafloor[®]-931 Finishing Aid in proper consumption helps to decrease microcracks on the floor.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Poor Finish Due to Incompatible Concrete Additives and Admixtures

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

- Do not use air-entraining agents. Air-entrained concrete is not a suitable substrate for the application of dry-shake hardeners.
- Do not use concrete with fly ash partially replacing the cement content, as this can result in a sticky and less workable concrete mix.
- Use Sikament[®] or Sika[®] ViscoCrete[®] superplasticizers

to ensure the optimal quality of the concrete mix and – with mixes where fibers are used – their uniform distribution throughout the mix. Consult the most current Sikament[®] or Sika[®] ViscoCrete[®] local Product Data Sheets for complete Application Instructions.

- 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 0.45 and 0.55 and must be consistent while being poured. The compressive strength must be at least 3625.9 psi (25 N/mm²).

SUBSTRATE PREPARATION

Preconditions

The concrete has been cast, compacted, and leveled.

APPLICATION

Mechanical Application: Automatic Spreader in Conjunction with a Laser Screed

- Spread 0.82-1.23 lb/sq. ft. (4-6 kg/sq. m) of Sikafloor®-3 QuartzTop Design almost immediately after the concrete has been leveled, in one application only, to allow the dry shake to hydrate.
- Trim the edges where adjoining slabs are to be poured. Note: Using the Sikafloor®-3 QuartzTop Design causes the slab surface to become stiffer more quickly than usual.
- 3. Spray apply a single very fine mist coat of Sikafloor®-931 Finishing Aid at a rate of 1,018.65 sq. ft./gal. (25 sq. m/L). Consult the most current Sikafloor®-931 Finishing Aid local Product Data Sheet for complete Application Instructions.
- 4. To achieve the final surface appearance, perform the final finishing using walk-on or ride-on power trowels repeatedly in two perpendicular directions.
- 5. If the base concrete does not provide sufficient moisture during the finishing process, apply another coat of Sikafloor®-931 Finishing Aid at a rate of 611.2-1,222.4 sq. ft./gal. (15-30 sq. m/L). Consult the most current Sikafloor®-931 Finishing Aid local Product Data Sheet for complete Application Instructions.

Manual Application

- 1. Avoid excessive application, which can cause ponding. After the concrete pour, immediately before the (bull) float process, apply a single coat of Sikafloor®-931 Finishing Aid at a rate of 814.9-1,018.7 sq. ft./gal. (20-25 sq. m/L). Consult the most current Sikafloor®-931 Finishing Aid local Product Data Sheet for complete Application Instructions.
- 2. Decide 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 footprint deeper than 0.2-0.6 in. (5-15 mm).
- 3. Trowel the surface of the concrete with power trowels. Note: Compaction with the trowel can start as soon as the concrete supports the weight of the power trowels.
- 4. Evenly scatter the material onto the compacted and



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leveled concrete. Sikafloor[®]-3 QuartzTop Design is applied in either two stages (60 : 40) or three stages (60 : 30 : 10). The quantities used in each stage depend on the desired overall consumption and layer thickness. Note: Casting Sikafloor[®]-3 QuartzTop Design further than 6.6 ft. (2 m) from the point of casting reduces the consistency of the spreading of the material. Apply Sikafloor[®]-3 QuartzTop Design without creating a ripple effect on the concrete surface.

- Spray a fine mist of Sikafloor[®]-931 Finishing Aid at a rate of 1,018.7 sq. ft./gal. (25 sq. m/L) to the concrete surface. Consult the most current Sikafloor[®]-931 Finishing Aid local Product Data Sheet for complete Application Instructions.
- 6. Work the first layer of Sikafloor®-3 QuartzTop Design into the slab using power trowels.
- 7. Immediately scatter the next layer third of the required material.
- 8. Spray a fine mist of Sikafloor[®]-931 Finishing Aid at a rate of 1,018.65-1,222.4 sq. ft./gal. (25-30 sq. m/L) to the concrete surface. Consult the most current Sikafloor[®]-931 Finishing Aid local Product Data Sheet for complete Application Instructions.
- 9. Never add additional water to the surface where the dry shake has been applied. Use power trowels to work the second layer of Sikafloor®-3 QuartzTop Design into the slab.
- 10. Repeat steps 7-9 for a three-layer system.
- 11. Spray a fine mist of Sikafloor[®]-931 Finishing Aid at a rate of 1,222.4-1,426.1 sq. ft./gal. (30-35 sq. m/L) to the concrete surface. Consult the most current Sikafloor[®]-931 Finishing Aid local Product Data Sheet for complete Application Instructions.
- 12. To achieve the final surface appearance, perform the final finishing using walk-on or ride-on power trowels repeatedly in two perpendicular directions.

CURING TREATMENT

Cure and seal the floor surface immediately after finishing.

- For a terrazzo floor aesthetic, use the water ponding curing method before grinding and polishing after 5-7 days. Wet curing blankets can also be used.
- For conventional dry shake floors, use water-dispersed curing and sealing compounds or solvent-based curing and sealing compounds such as Sikafloor® ProSeal, Sikafloor® ProSeal-22, or other locally produced Sikafloor® Proseal with the same curing and sealing properties. Consult the most current Sikafloor® Proseal local Product Data Sheets for complete Application

Instructions.

JOINTS

- 1. After finishing all previously mentioned operations and completing saw cuts, clean off any residual saw lubricant or slurry immediately.
- 2. Fill joints with Sikaflex[®] PRO-3 or another appropriate Sikaflex[®] sealant in accordance with the floor design requirements. Consult the most current Sikaflex[®] local Product Data Sheets for complete Application Instructions.

CLEANING OF TOOLS

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

OTHER RESTRICTIONS

See Legal Disclaimer.

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LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
 FOR INDUSTRIAL USE ONLY
- FOR INDUSTRIAL USE ONLY
 FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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