

SYSTEM DATA SHEET

Sikafloor® TerrazzoEffect CS-32

A highly durable, decorative concrete flooring system, based on dry-shake hardeners, ground and polished to a class B (salt-and-pepper) finish

PRODUCT DESCRIPTION

Sikafloor® TerrazzoEffect CS-32 is a ground and polished concrete flooring system in which grinding fully exposes the fine dry-shake hardener, producing a class B "salt-and-pepper" surface. The patented method enables the application of multiple layers of dry shake. The specially-designed finishing aid provides a more reliable surface finishing, densifies, and improves surface hardness.

USES

Sikafloor® TerrazzoEffect CS-32 is used for:

- Medium to heavy wear new concrete floors

Sikafloor® TerrazzoEffect CS-32 is used for the following application areas:

- Car park decks
- Commercial and public buildings
- Railway and metro stations
- Logistics facilities and warehouses
- Industrial buildings
- Electronic facilities and data centres

Please note:

- The System may only be used by experienced professionals.
- The System may only be used for interior applications.

CHARACTERISTICS / ADVANTAGES

- Decorative class B ("salt-and-pepper") finish, fully exposing the dry-shake aggregate
- Polished to chosen sheen level
- High durability
- Wide range of colours available
- Light colors help improve natural lighting
- Cost-effective
- Separate liquid hardener not needed after application
- Low maintenance
- Reduced moisture loss in early phase
- Easy application and finishing
- Quality improved final finish
- Increased resistance to oils and grease

APPROVALS / STANDARDS

- Particle Emission ISO 14644-1, Sikafloor® TerrazzoEffect CS-32, IPA Fraunhofer, Approval No. SI 2403-1509

SYSTEM INFORMATION

System Structure	Layer	Product
	Dry shake hardener	Sikafloor®-3 QuartzTop Design
	Finishing aid	Sikafloor®-931 Finishing Aid
	Curing	Water, blankets, curing sheets or foils
	Polishing	Grinding for full dry-shake aggregate exposure Polishing level 2, 3, or 4 for sheen
	Seal coat	Sikafloor®-958 PG
Appearance	The class refers to the amount of aggregate exposed during grinding. Class B offers a salt-and-pepper finish by fully exposing the aggregate in the dry-shake hardener.	
	The sheen level refers to the gloss of the polished floor, is measured using distinctness-of-image, and depends on the grit used during polishing.	
	Sheen Level	DOI reading
	Level 2 (Satin)	10-39
	Level 3 (Polished Gloss)	40-69
	Level 4 (Very High Gloss)	70-100
Color	Available in white or grey	
Nominal thickness	1/8" - 3/16" (2.5-4 mm)	

APPLICATION INFORMATION

Coverage	Layer	Product	Consumption
	Dry shake hardener	Sikafloor®-3 QuartzTop Design	1.6 - 2 lb/sf White consumption must be 2 pounds on gray concrete
	Finishing aid	Sikafloor®-931 Finishing Aid	50 - 200 sf/gal depending on conditions
	Seal coat	Sikafloor®-958 PG	2 coats @ 1,000 sf/gal diluted

PRODUCT INFORMATION

Packaging	Sikafloor®-3 QuartzTop Design	55 lb fill in paper bag
	Sikafloor®-931 Finishing Aid	5 gallon pail
	Sikafloor®-958 PG	5 gallon pail
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)	

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.

AVAILABILITY/WARRANTY

- Sika Method Statement Sikafloor® EasyFinish CS-30, Sikafloor® CreamPolish CS-31, Sikafloor® TerrazzoEffect CS-32
- Individual Product Data Sheets

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 important 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 dryshake hardeners.

Do not apply over concrete containing calcium chloride or concrete containing aggregate that has been saturated with salt water.

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® Product Data Sheets for complete application instructions. Concrete deliveries must be of consistent quality and comply with local standards. Concrete mix designs and placement/finishing should comply with ACI 302 guidelines.

If casting is planned in cold-weather conditions, the customer/main contractor shall provide heating in the building. The minimum air and subbase temperatures during casting must be 50 °F. If the floor temperature is below 50 °F, Sikafloor®-931 Finishing Aid may retard the surface layer. For best results, apply products when the surface temperature will remain between 54 - 77°F during the application and finishing.

To minimize the potential shrinkage of the concrete floor slab, the following conditions are required as best practice for concrete casting: a closed building free from crosswinds, direct sunlight, and the leakage of

any liquids (water, rain, etc.).

The slab must be good quality concrete with a watercement ratio between 0.45 and 0.55 and must be consistent while being poured. The compressive strength must be at least 3626 psi.

SUBSTRATE PREPARATION

Preconditions

The concrete has been cast, compacted, and leveled (screeded). The right timing of starting the pan-power floating sequence and or the application of the Sikafloor®-931 Finishing Aid is influenced by many factors which vary. Of most importance: humidity, temperature, w/c ratio, mix design, bleed water, air movement, amount of personnel and equipment, and area size. In general, the more dry-shake that needs to be applied, the earlier the start of the pan-power floating sequence, though it must not be too early.

APPLICATION

Mechanical Application: Automatic Spreader in Conjunction with a Laser Screed

1. Spread 0.8-1.2 lb./sq.ft. of Sikafloor®-3 QuartzTop Design almost immediately after the concrete has been leveled, in one application only, to allow the dry shake to hydrate. You should be applying 60% of the total amount to be applied in this first lift. If a two lift system is specified, apply 60% in lift one and 40% in lift two. If three lifts, 60%, 30% and 10%.
2. Trim the edges where adjoining slabs are to be poured. Do this by using a square edge wood hand float to scrape 1/8 - 1/4 in. off the edges feathered back up to slab surface height. Note: Using Sikafloor®-3 QuartzTop Design causes the slab surface to become stiffer more quickly than typical.
3. Spray apply a single very fine mist coat of Sikafloor®-931 Finishing Aid at a rate of 600 - 800 sq.ft./gal. Consult the most current Sikafloor®-931 Finishing Aid Product Data Sheet for complete application instructions.
4. To achieve the final surface appearance, perform the final finishing in two perpendicular directions using walk-on or ride-on power trowels with finishing blades. If white or light colored dry shake is used, plastic pans and blades must be used.
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 600 - 800 sq.ft./gal.
6. If a two-layered system is specified, apply a second lift comprised of the remaining 40% of Sikafloor®-3 QuartzTop Design. If a three layered system is specified, apply a second lift of Sikafloor®-3 QuartzTop Design at 30% of the total volume per square foot by weight. Spray a fine mist of Sikafloor®-931 Finishing Aid at 600-800 sq. ft./gal. Power trowel the surface with trowel pans. If Sikafloor®-3 QuartzTop Design doesn't

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get enough moisture from the subbase, or there are difficulties closing the surface with the trowel pan, more Sikafloor®-931 Finishing Aid can be sprayed. Continue troweling with trowel pans until the surface is tight and flat.

7. If a three-layered system is specified, apply the final 10% of Sikafloor®-3 QuartzTop Design and spray a fine mist of Sikafloor®-931 Finishing Aid at 600-1,200 sq. ft./gal. Power trowel the surface with trowel pans. If Sikafloor®-3 QuartzTop Design doesn't get enough moisture from the subbase, or you have difficulty closing the surface with the trowel pan, more Sikafloor®-931 Finishing Aid can be sprayed. Continue troweling with trowel pans until the surface is tight and flat.

Manual Application

1. Avoid excessive application, which can cause ponding.
2. Hot Weather Concrete Placement: After the concrete pour, immediately before the bull float process, apply a single coat of Sikafloor®-931 Finishing Aid at a rate of 800 - 1,000 sq.ft./gal. Consult the most current Sikafloor®-931 Finishing Aid Product Data Sheet for complete application instructions.
3. "Normal" Weather Concrete Placement: Determine whether the concrete is ready for the dry-shake application process. The process can start once the concrete can be stepped on without leaving a footprint deeper than 0.1 - 0.2 in. Apply the first single fine mist of Sikafloor®-931 Finishing Aid at approximately 800 - 1,000 sq. ft./gal. using a low-pressure sprayer, just before opening the surface with trowel pans. 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 leveled concrete. Sikafloor®-3 QuartzTop Design is applied in either two stages 60%, then 40% of specified Sikafloor®-3 QuartzTop Design application volume by weight, or three stages - 60%, then 30%, then final 10% of specified Sikafloor®-3 QuartzTop Design application volume. 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. 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.
5. Spray a fine mist of Sikafloor®-931 Finishing Aid at a rate of 600 - 800 sq. ft./gal. to the Sikafloor®-3 QuartzTop Design surface.
6. Work the first layer of Sikafloor®-3 QuartzTop Design into the slab using power trowels equipped with pans. Plastic pans must be used if a white or light colored dry shake is being applied.
7. Immediately scatter the next layer of the required material. 40% for a two layer system. 30% for a three layer system.
8. Spray a fine mist of Sikafloor®-931 Finishing Aid at a rate of 600 - 800 sq.ft./gal. to the Sikafloor®-3 QuartzTop Design surface.
9. Never add additional water to the surface where the

dry shake has been applied. Use power trowels equipped with pans to work the second layer of Sikafloor®-3 QuartzTop Design into the slab.

10. Repeat steps 7 - 9 for a three-layer system applying 60% for layer one, 30% for layer two and 10% for layer three.
11. Spray a fine mist of Sikafloor®-931 Finishing Aid at a rate of 1,000 - 1,200 sq.ft./gal. to the concrete surface.
12. To achieve the final surface appearance, perform the final finishing in two perpendicular directions using walk-on or ride-on power trowels with finishing blades. If white or light colored dry shake is used, plastic pans and blades must be used.

NOTE:

White Sikafloor® TerrazzoEffect CS-32 requires application at upper end of consumption rate. 2 pounds is required for white when installed on classic gray concrete. Going too light on the white may lead to shadowing or concrete show through. Gray Sikafloor® TerrazzoEffect CS-32 can be anywhere from 1.6 - 2 pounds.

CURING TREATMENT

Use Sika UltraCure NCF wet curing blankets Immediately after finishing for a minimum of 7 days before grinding and polishing. Other curing blankets may dry unevenly, resulting in inconsistent hydration and darker or lighter patches on the polished surface.

GRINDING AND POLISHING

After the concrete has cured for a minimum of seven days, mechanically polish the surface using Concra FAST resin bonds wet polishing techniques to the required aggregate exposure and shine. Sikafloor® TerrazzoEffect CS-32 system is polished in seven steps with grit choice based on aggregate exposure and gloss.

Light aggregate exposure, high gloss – resin grits - 25 wet, 50 wet, 100 wet, 200 wet, 400 wet, 1000 dry, 3000 dry
Heavy aggregate exposure, high gloss – resin grits - 25 wet, 50 wet, 100 wet, 200 wet, 400 wet, 1000 dry, 3000 dry – if you are not seeing sufficient aggregate exposure with the 25 resin, include a 30/40 metal to expose aggregate following the initial 25 grit and then go back to 25 grit for one pass before moving to 50.

SEALING

After polishing, seal the surface using two coats of Sikafloor®-958 PG and burnish to final appearance using a high speed floor machine equipped with final polish grit diamond pad.

JOINTS

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

Fill joints with Sikaflex® PRO-3 or another appropriate

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Sikaflex® sealant in accordance with the floor design requirements. Consult the most current Sikaflex® Product Data Sheets for complete application instructions.

PROTECTION

After Sikafloor®-958 PG or SikaCem®-101 CureSeal H2O application, protect hardened surface by covering it with Sika Proguard Duracover protective covering.

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.

LEGAL DISCLAIMER

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

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