

PRODUCT DATA SHEET

Sikafloor®-931 Finishing Aid

Finishing aid, floor hardener and densifier for concrete flooring

DESCRIPTION

Sikafloor®-931 Finishing Aid is a colloidal silica based densifier providing an easier, faster and improved flat-work and finishing of the concrete floor. The use of the product enables reliable application of higher amounts of dry shake powder and makes the final floor surface denser, harder and glossier.

USES

The product can be used on commercial and industrial polished concrete floors in dry shake applications.

Please note:

- The product may only be used by experienced professionals.

CHARACTERISTICS / ADVANTAGES

- Enhances workability and finishing
- Reduces the risk of delamination
- Increases surface gloss and density
- Enables the use of higher amounts of dry shake powder
- Low odour
- Improves abrasion resistance and durability
- Increases the available time for finishing in critical conditions
- Reduces plastic shrinkage and cracking
- Slows moisture loss

PRODUCT INFORMATION

Chemical base	Water-based colloidal silica
Packaging	50 kg and 20 kg plastic container
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 packaging. Refer to current Safety Data Sheet for information on safe handling and storage.
Appearance / Colour	Liquid / milky white
Density	~1.1 kg/L (EN ISO 2811-1)

TECHNICAL INFORMATION

Abrasion resistance	Built-up	Weight loss (cm³ /50cm²)	Improvement	(EN 13892-3) According to Böhme
	1.	8.7	-	
	2.	7.8	+10%	
	3.	6.8	+20%	
	1, Concrete C25/30 2. Concrete C25/30 + Sikafloor®-931 Finishing Aid (4 times) 3. Concrete C25/30 + Sikafloor®-3 QuartzTop IN (4 kg/m ²) + Sikafloor®-931 Finishing Aid (4 times) Note: All samples were fully power floated with pan and blades			
	155 % (> 140 %)			(JC/T2158)
	According to JC/T2158, actual abrasion resistance ratio			
Water retention	Water retention efficiency index after 6 hours	17.4 %		(CEN/TS 14754-1)
	Water retention efficiency index after 24 hours	15.2 %		
	Water retention efficiency index after 72 hours	12.2 %		

APPLICATION INFORMATION

Consumption	~0.027–0.055 kg/m ² /coat (maximum 0.07 kg/m ²) Note: These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.		
Ambient air temperature	Minimum		+5 °C
	Maximum		+40 °C
Relative air humidity	Maximum		100 %
Substrate temperature	Minimum		+5 °C
	Maximum		+35 °C

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.

FURTHER DOCUMENTS

Method Statement Finishing Aid for Concrete Flooring

IMPORTANT CONSIDERATIONS

- Performance enhancement of the substrates can vary greatly depending on the age, cement content, humidity content, porosity and penetration of the product into the substrate.
- The product will increase abrasion resistance compared to untreated concrete of the same type, however, the product cannot compensate performance of a poor substrate made with low cement con-

tent. It is not recommended to apply on substrates which are lightweight, extremely porous or have worn (aggregate exposed) surfaces.

- The product will not hide serious staining or excessive wear.
- This product is not a curing compound.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

IMPORTANT

Strictly follow installation procedures

Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

EQUIPMENT

- Low pressure sprayer

SUBSTRATE QUALITY

Mechanical substrate preparation

Fresh concrete

The concrete must be designed for flooring, allowing for power float and tamping techniques and if needed dry shake applications. If necessary, apply a dry shake to fresh concrete to remove bleeding water.

APPLICATION

IMPORTANT

Maximum application quantity

Do not apply more than 70 g/m² (15 m²/L) per single application. The product can be used in multiple stages together with Sikafloor®-3 QuartzTop IN.

IMPORTANT

Spraying equipment

Do not use sprayers which have previously been used to spray silicones or release agents. Ensure spraying equipment is cleaned thoroughly before use and previous membrane residues are removed.

IMPORTANT

Do not mix with other products

Do not mix the product with other surface hardeners.

IMPORTANT

Remove over-spray

Clean off over-spray with water immediately from glass, aluminium or highly polished surfaces to avoid etching.

New concrete

1. Spray the product with a low pressure sprayer immediately after the application of the concrete, during dry shake applications and during finishing to gloss level.
2. At every stage, spray a single application (15–30 m²/L). **IMPORTANT:** Take care not to produce puddles.
3. Finish the floor with power or manual floating/tamping techniques.
4. To achieve a higher level of surface uniformity and glossiness, polish and grind the surface 7 to 10 days after casting (wet method). **IMPORTANT:** During polishing and grinding, do not apply any additional densifiers, as the dry shake hardener is densified with the Product during placement.

CLEANING OF TOOLS

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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