Product Data Sheet Edition 08/08/2008 Identification no: 01 08 03 04 001 0 000012 Sikafloor®-2 SynTop

Sikafloor[®]-2 SynTop

Non-metallic dry shake floor hardener

Product Description	Sikafloor [®] -2 SynTop is a one part, preblended, coloured synthetic dry shake hardener for concrete comprising of cement, hard aggregates, compatible admixtures and pigment.
Uses	Sikafloor [®] -2 SynTop provides a hard wearing, non-metallic dry shake topping for monolithic floors. When sprinkled and trowelled into fresh wet concrete floors, it forms a coloured, very wear resistant smooth surface
	Typical uses are in warehouses, distribution centres, factories, manufacturing facilities, aircraft hangars, DIY stores, supermarkets, shopping malls, offices and museums
Characteristics /	Very high wear resistance rating
Advantages	Good impact resistance
	Cost effective, long life floor
	Maintenance free
	Slip resistant surface possible
	Dust proof
	Increased resistance to oils and grease
	Available in colours
Tests	
Approval / Standards	Conforms to the requirements of BS 8204, EN 206/1, ACI 304.1R 96 and TR 34.
	UK Aston University, Report Nº: AL/AR 221098, dated 22.10.98.
	GEOCISA Refs. P-02/01642 and P-02/01641, both dated Jan. 9, 2003.
Product Data	
Form	
Appearance / Colours	Powder

Appearance / Colours	Powder Natural (concrete grey) Other colours upon request.
Packaging	25 kg bags
Storage	
Storage Conditions / Shelf-Life	12 months from date of production if stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between $+5^{\circ}$ and $+30^{\circ}$.



Technical Data					
Chemical Base	Blend of natural and synthetic aggregates mixed with cement, admixtures and pigments.				
Density	$\sim 2.0 \pm 0.1$ kg/l (bulk density)				
Layer Thickness	~ 2.5 to 3.0 mm at the recommended coverage of ~ 5.0 kg/m ²				
Mechanical / Physical Properties					
Abrasion Resistance	Class "AR1" Very high abrasion resistance (BS 8204 I (Less than 0.1 mm wear depth)				
	4702 mg > A > 3150 Taber Abrader H-22	0 mg (UNE 48.250-92 / ASTM D-4060) 2 / 1000 gr / 1000 cycles			
System Information					
System Structure	Use products mentioned below as indicated in their respective Product Data Sheets.				
	Substrate:	Fresh concrete slab (See Substrate Quality below)			
	Dryshake:	Manual or machine application of Sikafloor [®] -2 SynTop Levelling of surface by means of power trowel or laser screed Final smoothing with power trowel.			
	Curing compound:	Application of any of the products in the Sikafloor [®] ProSeal range.			
Application Details					
Consumption	~ 5 kg/m ² . This figu	re does not allow for surface profile and wastage.			
Substrate Quality	The concrete deliveries must be of consistent quality.				
	A concrete slump in the range 75 to 110 mm will normally give best results.				
	The slab must be of good quality concrete with a minimum water/cement ratio consistent with the production of a fully compacted slab.				
	The compressive strength must be a minimum of 25 N/mm ² .				
	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 dryshake hardeners.				
Application Conditions / Limitations					
Substrate Temperature	+5℃ min. / +35℃ max.				
Ambient Temperature	+5℃ min. / +35℃ max.				
Relative Air Humidity	30% r.h. min. / 98%	r.h. max.			
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Application			
Instructions Application Method /	(i) Mechanical Application - Automatic spreader in conjunction with a laser screed:		
Tools	Spread Sikafloor [®] -2 SynTop evenly onto the concrete immediately after screeding at 5 kg/m ² in one application.		
	(ii) Manual application:		
	Dependent on the conditions, remove the surface "bleed" water or allow it to evaporate. Sprinkle Sikafloor [®] -2 SynTop onto the screeded concrete evenly in 2 stages (first stage: 3 kg/m ² ; second stage: 2 kg/m ²).		
	Care must be taken to apply the product without creating ripples etc. in the concrete surface. Overall application rate 5 kg/m ² . Casting Sikafloor [®] -2 SynTop powder carelessly or further than 2 metres from point of casting will reduce the consistency of finish.		
	Compaction: The first application must be worked into the slab followed immediately by application of the second stage quantity of Sikafloor [®] -2 SynTop.		
	Notes:		
	- Never add water to the surface where the dryshake has been applied.		
	 Sikafloor[®]-2 SynTop results in the slab surface becoming "stiff" more quickly than usual. Careful trimming must take place along the edges where adjoining slabs are to be poured. 		
	 Final finishing to close pores and remove undulations can be achieved either by hand or powered trowel. 		
Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.		
Application Time	Application time for dryshake products is influenced by every variable which affects the placing of concrete, and can therefore vary substantially, depending on the prevailing conditions.		
	For mechanical application with automatic spreader and laser screed, the spreading can start almost immediately after concrete has been levelled to allow for the hydration of the dryshake. Compaction with the trowel can start as soon as weight of the power trowels is supported by the concrete.		
	For manual application, the dryshake must be spread once the concrete can be stepped on, without leaving a print deeper than 3 - 5 mm.		
	Periodical checking of the condition and development of the concrete will determine the correct time frame for each stage and sequence of application.		

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Notes on Application / Limitations	The application of the dry shake powder must not be carried out in strong wind or draughts.				
	Do not use concrete where some cement has been replaced by fly ash, as this makes the mix sticky and less workable.				
	Variations in concrete characteristics such as water content and cement quality 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.				
	Every effort must be mac Correct timing and trowe			oor [®] -2 SynTop.	
	At low relative humidities	(below 40%), efflor	escence can appear	on the surface.	
	At high relative humidites occur and extended finis			nd hardening can	
	Slip resistance can be enhanced through chemical ageing. Refer to the Method Statement for Application for details.				
	Do not apply over air entrained concrete or concrete with an air content greater than 3%.				
Curing Details					
Curing Treatment	Cure and seal Sikafloor®	tely after finishing usi	ng any of the		
C C	products in the Sikafloor [®] Apply by roller of fine mis				
	products in the Sikafloor [®]	at spray. Disperse a and completing sa delay. Joints can be	ny excess pools using w cuts, clean off any r e filled with Sikaflex [®] F	g a roller. residual saw PRO-3WF or	
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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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