Product Data Sheet Edition 21/08/2006 Identification no: 02 08 03 04 001 0 000000 Sika® Chapdur

Sika[®] Chapdur

Non-metallic mineral dry shake floor hardener

25 kg bags

Product Description	Sika [®] Chapdur is a one part, preblended, coloured mineral dry shake hardener for concrete comprising of cement, specially selected natural mineral aggregates, admixtures and pigments.		
Uses	Sika [®] Chapdur provides a hard wearing, mineral dry shake topping for monolithic floors. When sprinkled and trowelled into fresh wet concrete floors, it forms a coloured, wear resistant smooth surface		
	Typical uses are in warehouses, factories, shopping malls, public areas, restaurants and museums		
Characteristics / Advantages	Good wear resistance rating		
	Impact resistance		
	Cost effective surface hardener		
	Dust proof		
	Easy cleaning		
	Increased resistance to oils and grease		
	Quality assured factory blending		
	Suppresses superficial fibres in concrete		
Product Data			
Form			
Appearance / Colours	Powder		
	Natural (concrete grey)		
	Other colours upon request.		

Packaging

Storage		
Storage Conditions / Shelf-Life	6 months from date of production if stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.	
Technical Data		
Chemical Base	Natural mineral aggregates graded and mixed with cement, admixtures and pigments.	
Bulk Density	~ 1.5 ± 0.1 kg/l at 27°C	
Layer Thickness	~ 2.5 to 3.0 mm at dosage of ~ 5.0 kg/m ²	



Mechanical / Physical Properties				
Abrasion Resistance	~1.70 mm thickness loss (average)		(According to IS 1237- 1980)	
System Information				
System Structure	Use products mentioned below as indicated in their respective Product Data Sheets.			
	Substrate:	Fresh concrete slab (S	ee Substrate Quality below)	
	Dryshake:	Manual or machine app Levelling of surface by Final smoothing with po	blication of Sika [®] Chapdur means of power trowel or laser screed. ower trowel.	
	Curing compound:	Application of Sikafloor	[®] ProSeal range	
Application Details				
Consumption	For Light duty 3.5 to 4.0 kg/m ²			
	For Medium duty 4.5 to 5.0 kg/m ²			
	For Heavy duty 5.5 t	o 6.0 kg/m ²		
Substrate Quality	The concrete deliver	ies must be of consisten	t quality.	
	A concrete slump in	the range 75 to 110 mm	will normally give best results.	
	The slab must be of consistent with the p	good quality concrete wi roduction of a fully comp	th a minimum water/cement ratio pacted slab.	
	The compressive str	ength must be a minimu	m of 20 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 Concre hardeners.	ete is not a suitable subs	trate for the application of dryshake	
Application Conditions / Limitations				
Substrate Temperature	+5°C min. / +35°C m	nax.		
Ambient Temperature	+5°C min. / +35°C max.			
Relative Air Humidity	30% r.h. min. / 98%	r.h. max.		
Application Instructions				
Application Method / Tools	Dependent on the conditions, remove the surface "bleed" water or allow it to evaporate. Sprinkle Sika [®] Chapdur onto the screeded concrete evenly in 2 stages (first stage: 60%; second stage: 40%).			
	Care must be taken surface.	to apply the product with	out creating ripples etc. in the concrete	
	Compaction: The first application application of the se	must be worked into the cond stage quantity of Si	slab followed immediately by ka [®] Chapdur	
	Notes:			
	- Never add wate	er to the surface where the	ne dryshake has been applied.	
	 Sika[®] Chapdur usual. Careful t are to be poure 	results in the slab surfac rimming must take place d.	e becoming "stiff" more quickly than along the edges where adjoining slabs	
	Final finishing closin hand or powered tro	g pores and removing ur wel.	ndulations can be achieved either by	

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 s can start almost immediately after the conc hydration of the dryshake. Compaction with weight of the power trowels is supported by	spreader and laser screed, the spreading rete has been levelled to allow for the the trowel can start as soon as the the concrete.	
	For manual application, the dryshake must stepped on, without leaving a print deeper t	be spread once the concrete can be han 3 - 5 mm.	
	Periodical checking of the condition and det the correct time frame for each stage and s	velopment of the concrete will determine equence of application.	
Notes on Application / Limitations	The application of the dry shake powder must not be carried out in strong wind or in dry conditions.		
	Do not use concrete where some cement he makes the mix sticky and less workable.	as been replaced by fly ash, as this	
	Variations in concrete characteristics such a to slight colour variations.	as water content and cement may lead	
	Dry shake hardeners give a finish to concre floor due to the natural variability of the con	te with some colour variation across the crete onto which they are applied.	
	To ensure optimum of colour consistency, it operation is as clean and protected from the	is essential that the floor laying environment as possible.	
	Colour variation during the drying out period expected.	d is normal for this system and is to be	
	Every effort must be made to ensure an even application of Sika [®] Chap timing and trowelling techniques are essential.		
	At low relative humidities (below 40%), efflorescence can appear on the surface.		
	At high relative humidites (above 80%), bleeding, slower curing and hardening o occur and extended finishing operations be required. For Mechanical Application - Automatic spreader in conjunction with a laser scre		
	Spread Sika [®] Chapdur evenly onto the concrete immediately after screeding in one application.		
Curing Details			
Curing Treatment	Cure and seal Sika [®] Chapdur immediately after finishing using any of the products in the Sikafloor [®] ProSeal range. (Refer to separate Product Data Sheet). Apply by roller of fine mist spray. Disperse any excess pools using a roller.		
	Joints: After finishing operations and completing saw cuts, clean off any residual saw lubricant / slurry without delay. Joints can be filled with Sikaflex [®] PRO-3WF or another appropriate Sikaflex [®] sealant in accordance with the floor design requirements.		
Applied Product ready			
for use	Substrate Temperature	27°C	
	Foot Traffic	~72 hours	
	Fully serviceable	~7 days	
	The above values are dependent upon the serviceability and will be affected by changi temperature and relative humidity.	concrete reaching its design strength for ng ambient conditions, particularly	

Cleaning / Maintenance	
Methods	To maintain the appearance of the floor after application, Sika [®] Chapdur must have all spillages removed immediately and must be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques, etc., using suitable detergents and waxes.
Value Base	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.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.
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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