Product Data Sheet Edition 06/05/2013 Identification no: 02 08 03 04 001 0 000006 Sika<sup>®</sup> Chapdur

## Sika® Chapdur

## Non-metallic mineral dry shake floor hardener

Sika <sup>®</sup> Chapdur is a one part, preblended, coloured mineral dry shake hardener for concrete comprising of cement, specially selected natural mineral aggregates, admixtures and pigments.
Sika <sup>®</sup> 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
<ul> <li>Typical uses are in warehouses, factories, shopping malls, public areas, restaurants and museums</li> </ul>
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
Powder
Natural (concrete grey) Other colours upon request

## Other colours upon request. **Packaging** 30 kg bags **Storage** Storage Conditions / 12 months from date of production if stored in original, unopened and undamaged Shelf-Life 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** $\sim 1.5 \pm 0.1$ kg/l at 27°C **Layer Thickness** $\sim$ 2.5 to 3.0 mm at dosage of $\sim$ 5.0 kg/m<sup>2</sup>



Mechanical / Physical Properties			
Abrasion Resistance	~1.70 mm thickness	s loss (average )	(According to IS 1237- 1980)
System Information			
System Structure	Use products mention Sheets.	oned below as indicated i	in their respective Product Data
	Substrate:	Fresh concrete slab (Se	ee Substrate Quality below)
	Dryshake:		olication of Sika <sup>®</sup> Chapdur means of power trowel or laser screed. ower trowel.
	Curing compound:	Application of Sikafloor	<sup>®</sup> ProSeal range
Application Details			
Consumption	For Light duty 3.5 to 4.0 kg/m <sup>2</sup>		
	For Medium duty 4.5 to 5.0 kg/m <sup>2</sup>		
	For Heavy duty 5.5 to 6.0 kg/m <sup>2</sup>		
Substrate Quality	The concrete delive	ries must be of consisten	t quality.
	A concrete slump in	the range 75 to 110 mm	will normally give best results.
		good quality concrete with production of a fully comp	th a minimum water/cement ratio pacted slab.
	The compressive st	rength must be a minimu	m of 20 N/mm <sup>2</sup> .
			plasticisers is advised to ensure the are used, their optimum dispersion
	Air Entrained Concr hardeners.	ete is not a suitable subst	trate for the application of dryshake
Application Conditions / Limitations			
Substrate Temperature	+5°C min. / +35°C n	nax.	
Ambient Temperature	+5°C min. / +35°C n	nax.	
Relative Air Humidity	30% r.h. min. / 98%	r.h. max.	
Application Instructions			
Application Method / Tools	Dependent on the c evaporate. Sprinkle (first stage: 60%; se	Sika® Chapdur onto the s	rface "bleed" water or allow it to screeded concrete evenly in 2 stages
	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 econd stage quantity of Si	slab followed immediately by ika <sup>®</sup> Chapdur
	Notes:		
	- Never add wat	er to the surface where th	ne dryshake has been applied.
		trimming must take place	e becoming "stiff" more quickly than along the edges where adjoining slabs
	Final finishing closing hand or powered tro		ndulations can be achieved either by

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Cleaning of Tools	Clean all tools and application equipment Hardened / cured material can only be rer		
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 can start almost immediately after the conhydration of the dryshake. Compaction with weight of the power trowels is supported by	th the trowel can start as soon as the	
	For manual application, the dryshake mus stepped on, without leaving a print deeper		
	Periodical checking of the condition and d the correct time frame for each stage and		
Notes on Application / Limitations	The application of the dry shake powder n dry conditions.	nust not be carried out in strong wind or in	
	Do not use concrete where some cement makes the mix sticky and less workable.	has been replaced by fly ash, as this	
	Variations in concrete characteristics such to slight colour variations.	as water content and cement may lead	
	Dry shake hardeners give a finish to concilior due to the natural variability of the co		
	To ensure optimum of colour consistency, operation is as clean and protected from t		
	Colour variation during the drying out period is normal for this system and is to be expected.		
	Every effort must be made to ensure an e timing and trowelling techniques are esset		
	At low relative humidities (below 40%), eff	lorescence can appear on the surface.	
	At high relative humidites (above 80%), bleeding, slower curing and hardening can occur and extended finishing operations be required.		
	For Mechanical Application - Automatic sp	preader in conjunction with a laser screed:	
	Spread Sika $^{\! ^{\otimes}}$ Chapdur evenly onto the coapplication.	ncrete immediately after screeding in one	
Curing Details			
Curing Treatment	vafter finishing using any of the products separate Product Data Sheet). Apply by ess 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 an other appropriate Sikaflex® sealant in accordance with the floor design requirements.		
Applied Product ready			
for use	Substrate Temperature	27°C	
	Foot Traffic	~72 hours	

Substrate Temperature	27°C
Foot Traffic	~72 hours
Fully serviceable	~7 days

The above values are dependant upon the concrete reaching its design strength for serviceability and will be affected by changing ambient conditions, particularly temperature and relative humidity.

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Cleaning / Maintenance	
Methods	To maintain the appearance of the floor after application, Sika <sup>®</sup> 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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