**Product Data Sheet** Edition 28/12/2013 Identification no: 02 08 03 04 001 0 000070 Sika® Chapdur C

## Sika<sup>®</sup> Chapdur C

Non-metallic dry shake floor hardener

Product Description	Sika <sup>®</sup> Chapdur C is a one part, preblended, synthetic dry shake hardener for concrete comprising of cement, hard aggregates, compatible admixtures and pigment.		
Uses	Sika <sup>®</sup> Chapdur C provides a hard wearing, non-metallic dry shake topping for monolithic floors. When sprinkled and trowelled into fresh wet concrete floors, it forms a high 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 / Advantages	Very high wear resistance rating		
	Good impact resistance		
	Cost effective, long life floor		
	Maintenance free		
	Slip resistant surface possible		
	Dust proof		
	Increased resistance to oils and grease		
	Available in select colours (Consult Sika <sup>®</sup> representative)		

Product	Data
-	

Form	
Appearance / Colours	Powder Natural (concrete grey) Other colours upon request.
Packaging	30 kg bags
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	Blend of natural and synthetic aggregates mixed with cement, admixtures and pigments.
Bulk Density	~ 1.5 ± 0.1 kg/l at 27ºC
Layer Thickness	~ 2.5 to 3.0 mm at dosage of ~ 5.0 kg/m <sup>2</sup>



Abrasion Resistance	~1.15 mm thickness	s loss (average )	(According to IS 1237- 1980)		
			(//////////////////////////////////////		
System Information					
System Structure	Use products mentioned below as indicated in their respective Product Data Sheets.				
	Substrate:		e Substrate Quality below)		
	Dryshake:		lication of Sika <sup>®</sup> Chapdur C neans of power trowel or laser screed. wer trowel.		
	Curing compound:	Application of Sikafloor®	ProSeal range		
Application Details					
Consumption	For Light duty 3.5 to	o 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	eries must be of consisten	t quality.		
	A concrete slump ir	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 <sup>2</sup> .				
			plasticisers is advised to ensure the are used, their optimum dispersion		
	Air Entrained Concrete is not a suitable substrate for the application of dryshake hardeners.				
Application Conditions / Limitations					
Substrate Temperature	+5°C min. / +35°C max.				
Ambient Temperature	+5°C min. / +35°C max.				
Relative Air Humidity	30% r.h. min. / 98%	o r.h. max.			
Application Instructions					
Application Method / Tools	evaporate. Sprinkle	conditions, remove the su Sika <sup>®</sup> Chapdur C onto th 60%; second stage: 40%)	rface "bleed" water or allow it to e screeded concrete evenly in 2		
	Care must be taken to apply the product without creating ripples etc. in the concrete surface.				
	Compaction: The first application must be worked into the slab followed immediately by application of the second stage quantity of Sika <sup>®</sup> Chapdur C				
	Notes:				
	- Never add wat	ter to the surface where th	ne dryshake has been applied.		
		trimming must take place	ace becoming "stiff" more quickly than along the edges where adjoining slab		
	Final finishing closir	ng pores and removing ur	ndulations can be achieved either by		

Cleaning of Tools	Clean all tools and application equipment w Hardened / cured material can only be rem				
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 stepped on, without leaving a print deeper				
	Periodical checking of the condition and development of the concrete will determine the correct time frame for each stage and sequence of application.				
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 made to ensure an even application of Sika <sup>®</sup> Chapdur C Correct 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 can occur and extended finishing operations be required.				
	For Mechanical Application - Automatic spreader in conjunction with a laser screed:				
	Spread Sika <sup>®</sup> Chapdur evenly onto the concrete immediately after screeding in one application.				
Curing Details					
Curing Treatment	Cure and seal Sika <sup>®</sup> Chapdur C immediately after finishing using any of the products in the Sikafloor <sup>®</sup> 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 s lubricant / slurry without delay. Joints can b other appropriate Sikaflex <sup>®</sup> sealant in acco requirements.	be filled with Sikaflex <sup>®</sup> PRO-3WF or any			
Applied Product ready					
for use	Substrate Temperature	27°C			
	Foot Traffic	~72 hours			
	Fully serviceable	~7 days			
	The above values are dependant upon the serviceability and will be affected by chang temperature and relative humidity.				

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



Sika India Pvt. Ltd. Commercial Complex II 620, Diamond Harbour Road Kolkata, 700 034, India Phone +91 33 2447 2448/2449 Telefax +91 33 2396 8688 ind.sika.com info.india@in.sika.com