

PRODUCT DATA SHEET

Sika[®] Chapdur C

NON-METALLIC DRY SHAKE FLOOR HARDENER

DESCRIPTION

Sika[®] Chapdur C is a one part, pre-blended, synthetic dry shake hardener for concrete comprising of cement, hard aggregates, compatible admixtures and pigment.

USES

Sika[®] Chapdur C may only be used by experienced professionals.

- Sika[®] Chapdur C provides a hard wearing, non-metallic dry shake topping for monolithic floors. When sprinkled and troweled into fresh wet concrete floors, it forms a high wear resistant smooth surface
- Typical uses are in warehouses, distribution centers, 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[®] representative)

PRODUCT INFORMATION

Packaging	30 kg bags
Appearance / Colour	Powder Natural (concrete grey) Other colours upon request.
Shelf life	6 months from date of production
Storage conditions	Stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

Bulk Density	1.5 ± 0.1 kg/l at 27°C	
Abrasion Resistance	1.62 mm thickness loss (average)	(According to IS 1237- 1980)
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 Sika® Chapdur C Levelling of surface by means of power trowel or laser screed. Final smoothing with power trowel.	
	Curing compound: Application of Sikafloor® ProSeal range	
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 to 6.0 kg/m ²	
Layer Thickness	2.5 to 3.0 mm at dosage of ~ 5.0 kg/m ²	
Ambient Air Temperature	+5°C min. / +35°C max.	
Relative Air Humidity	30% r.h. min. / 98% r.h. max.	
Substrate Temperature	+5°C min. / +35°C max.	
Applied Product Ready for Use	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	

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/mm².

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

Dependent on the conditions, remove the surface "bleed" water or allow it to evaporate. Sprinkle Sika® Chapdur C onto the screeded concrete evenly in 2 stages (first stage: 60%; second stage: 40%).

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® Chapdur C

Notes:

- Never add water to the surface where the dryshake has been applied.
- Sika® Chapdur C 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 closing pores and removing undulations can be achieved either by hand or powered trowel. 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.

CURING TREATMENT

Cure and seal Sika® Chapdur C 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-3 or another appropriate Sikaflex® sealant in accordance with the floor design requirements.

CLEANING OF EQUIPMENT

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

MAINTENANCE

CLEANING

To maintain the appearance of the floor after application, Sika® 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.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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 the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

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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