

PRODUCT DATA SHEET

Sika® Chapdur®

NON METALIC FLOOR HARDENER

DESCRIPTION

Sika® Chapdur® is a ready to use mixture of cement, pigments, additives and hard aggregate of mineral origin. The particles have been specially selected for their shape, grading, high physical quality and mechanical performance.

USES

Sika® Chapdur® may only be used by experienced professionals.

Sika® Chapdur® is added to the surface of slabs to improve their abrasion resistance and inhibit dust formation.

Sika® Chapdur® is suitable for all floors exposed to heavy mechanical wear, e.g.:

- Warehouses
- Docks
- Roadways
- Engineering workshops
- Parking lots
- Service stations
- Garages

FEATURES

- High abrasion resistance
- Reduces surface dust
- Improves impact resistance
- Improves oil resistance
- Easy application, Sika® Chapdur® is sprinkled over freshly placed concrete
- Uniform finish if properly smoothed
- Can be combined with Sikafloor®-933 Densifier for easier, faster and improved flat-work and finishing of the concrete floor

PRODUCT INFORMATION

Packaging	25 kg bag
Colour	Powder / Natural, Grey, Light Grey, Extra Green, and Red
Shelf life	9 months from the date of production if properly stored in its original closed and undamaged packaging
Storage conditions	Stored in dry conditions at temperatures between +5 °C and +30 °C.
Density	~1.4 kg/L

APPLICATION INFORMATION

Consumption	Average consumption : 3 kg to 6 kg per m ² , depend on job requirement:	
	Light duty	3 kg/m ²
	Medium duty	4 - 5 kg/m ²
	Heavy duty	6 kg/m ²
For Sika® Chapdur® Colour should be minimum 5 kg/m ² . Yielding a surface strengthening coat of approx 2-3 mm thickness.		
Curing time	Foot traffic	1 – 2 days
	For light vehicle traffic	7 – 10 days
	Fully cured after	28 days
The Sika® Chapdur® surface must be protected to prevent early dryout, crazing and bloom. Therefore suitable curing system shall be applied on the concrete. Contact Sika® Technical Service for further Information.		

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.

LIMITATIONS OF USE

- The consumption Sika® Chapdur® Colour application should be minimum 5 kg/m².
- As nature of the material, silica sand used in Sika® Chapdur® may contain organic matter that may result on appearance of black spots on hardened Sika® Chapdur® surface.
- The application of the dry shake powder must not be carried out in strong wind or in dry conditions.
- Application Sika® Chapdur® should not make flatness and levelness, depend on concrete surface.
- Variations in concrete characteristics such as water content and cement 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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The concrete slab should be at least 15 cm thick, the concrete should contain an adequate proportion of cement. It is recommended to add a suitable Sika concrete admixture to improve its properties (e.g. Sika-ment) Level the freshly poured concrete by means of a vibrating beam. As soon as the plasticity permits, smooth the concrete preferably by using a mechanical trowel.

APPLICATION METHOD / TOOLS

BROAD CASTING OF CHAPDUR PREMIX

The concrete slab is ready for the Sika® Chapdur® cement coating when a thumb pressed hard onto the surface only leaves a print of about 3-5 mm depth. Broadcast the mix evenly by hand or with suitable device.

COMPACTION

Wait until the Sika® Chapdur® has been evenly moistened by the water in the concrete, Use a low rpm mechanical trowel, held perfectly flat.

Note: If parts of the surface come loose or if the laitance rises, this means the concrete is still too fresh.

SMOOTHING

As soon as the plasticity or initial set allows, perform preliminary smoothing with the same machine running at low speed but equipped with metal smoothing blades, set at minimum angle. Any final smoothing required should be performed later with the machine running at high speed.

JOINTS

Construction joints, expansion joints and floor joints should be saw-cut only after 24 hours. When the slab has hardened, the joints can be filled with the appropriate Sikaflex® Sealant in accordance with the floor requirements.

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 exact product data and uses.

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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