

PRODUCT DATA SHEET

Sika®Chapdur®

NON METALIC FLOOR HARDENER

DESCRIPTION

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® is added to slab surface to improve their resistance to abrasion and inhibit dust formation.

Sika Sika®Chapdur® is suitable for all floor exposed to severe mechanical wear for example:

- Warehouse
- Quays
- Traffic lanes
- Engineering workshop

- Car-parks
- Service stations
- Garage etc.

CHARACTERISTICS / ADVANTAGES

- High resistance to abrasion
- Reduce surface dust
- Improves resistance to impact
- Improves resistance to oils and greases
- Wide range of colour
- Easy application, Sika®Chapdur® is sprinkled onto the freshly placed concrete
- Even finish obtainable when properly smoothed

PRODUCT INFORMATION

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

TECHNICAL INFORMATION

Mohs Hardness	6 – 7
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APPLICATION INFORMATION

Consumption

Average consumption : 3 kg to 6 kg per m², depend on job requirement

Light duty : 3 kg/ m²

Medium duty : 4-5 kg/ m²

Heavy duty : 6 kg/ m²

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 dry-out, crazing and bloom.

Therefore suitable curing system shall be applied on the concrete.

Contact Sika Technical Service for further Information

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The concrete slab should contain an adequate proportion of cement. It is recommended to add a suitable Sika concrete admixture to improve its properties (e.g. Sikament, ViscoCrete).

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

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.

LIMITATION

- **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.

BASIS OF PRODUCT DATA

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) 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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