

PRODUCT DATA SHEET

Sika® Chapdur® Extra

Non-metallic dry shake floor hardener

DESCRIPTION

Sika® Chapdur Extra is a one part, pre-blended, mineral dry shake hardener for concrete comprising of cement, hard aggregates, specially selected quartz mineral aggregates, admixtures and pigments.

USES

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

- Sika® Chapdur® Extra provides a hard wearing, non-metallic dry shake topping for monolithic floors. When sprinkled and trowelled into fresh wet concrete floors, it forms a wear resistant smooth surface.
- Typical uses are in warehouses, factories, shopping malls, public areas, restaurants and museums.

CHARACTERISTICS / ADVANTAGES

- Product with a lower carbon footprint
- Good wear resistance rating
- Impact resistance
- Cost effective surface hardener
- Dust proof
- Easy cleaning
- Increased resistance to oils and grease
- Quality assured factory blending

APPROVALS / STANDARDS

Confirms to the requirements of EN 13813-CT-C70-F7-AR0.5, Declaration of Performance and provided with CE-marking.

PRODUCT INFORMATION

Chemical Base	Blend of natural and synthetic aggregates mixed with cement, admixtures and pigments.
Packaging	25 kg bags
Appearance / Colour	Grey powder
Shelf Life	12 months
Storage Conditions	Store properly in undamaged original sealed packaging, in dry cool conditions
Density	~ 2,3 ± 0.05 kg/l
Maximum Grain Size	2 mm

TECHNICAL INFORMATION

Abrasion Resistance	class AR 0,5	EN 13892-4
Compressive Strength	≥ 70 MPa (after 28 days)	EN 13892-2
Tensile Strength in Flexure	≥ 7.0 MPa (after 28 days)	EN 13892-2
Reaction to Fire	A1 _{fl}	

APPLICATION INFORMATION

Consumption	~ 3.0-5.0 kg/m ² . This figure does not allow for surface profile and wastage.			
Ambient Air Temperature	+5°C min. / +35°C max.			
Substrate Temperature	+5°C min. / +35°C max.			
Waiting Time / Overcoating	Application time for dry shake 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 the concrete has been levelled to allow for the hydration of the dry shake. Compaction with the trowel can start as soon as the weight of the power trowels is supported by the concrete. For manual application, the dry shake 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.			
Applied Product Ready for Use	Substrate Temperature	+10°C	+20°C	+30°C
	Foot traffic	~ 18 hours	~ 12 hours	~ 8 hours
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.				

SYSTEM INFORMATION

System Structure	Use products mentioned below as indicated in their respective Product Data Sheets. Substrate: ▪ Fresh concrete slab (See Substrate Quality below). Dry shake: ▪ Manual or machine application of Sika® Chapdur Extra ▪ Dry shake application by dispensing trolley or laser screed ▪ Final smoothing with power trowel. Curing compound: ▪ Sikafloor® ProSeal-12, Sikafloor® ProSeal-22, Sikafloor® ProSeal-10 W.
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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.

LIMITATIONS

- The application of the dry shake powder must not be carried out in strong wind or in dry conditions.
- 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 may lead to slight colour vari-

ations.

- 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.
- 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® Chapdur® Extra. Correct timing and trowelling techniques are essential.
- At low relative humidity (below 40%), efflorescence can appear on the surface.
- At high relative humidity (above 80%), bleeding, slower curing and hardening can occur and extended finishing operations be required.
- Slip resistance can be enhanced through chemical ageing. Refer to the Method Statement for Application for details.
- As a consequence of repeated power trowelling, which brings to the surface tension, very fine cracks may appear on the floor surface. That phenomenon is typical for mechanically polished surfaces and does not have negative effect on floor properties..

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

- The concrete deliveries must be of consistent quality and meet requirements of EN 206-1.
- Concrete characteristics are specified by its class determined in the static design and by general recommendations for concrete mixture formulation. Typical concrete classes for armoured concrete floors are specified minimally as C20/25 (B25) or C25/30 (B30) exceptionally even as C30/37 (B35).
- Use of Sikament® or Sika Viscocrete® super plasticisers is advised to ensure the optimum quality and workability 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 dry shake hardeners.

APPLICATION

i) Mechanical Application - Automatic spreader in conjunction with a laser screed:

- Spread Sika® Chapdur® Extra evenly onto the concrete immediately after screeding at ~ 3.0- 5.0 kg/m² in one application.

(ii) - Manual application:

- Dependent on the conditions, remove the surface bleed water or allow it to evaporate.
- Sprinkle Sika® Chapdur® Extra onto the screeded concrete evenly in 2 stages (first stage: 3 kg/m²; second stage: 2 kg/m²). The first application must be worked into the slab followed immediately by the application of the second stage quantity of Sika® Chapdur® Extra.
- Care must be taken to apply the product without creating ripples etc. in the concrete surface. Overall application rate 5 kg/m². Casting Sika® Chapdur® Extra powder carelessly or further than 2 metres from point of casting will reduce the consistency of finish.

For more information please refer to Method Statement.

Notes:

- Never add water to the surface where the dry shake has been applied.
- Sika® Chapdur® Extra 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 to close pores and remove undulations can be achieved either by hand or powered trowel.

CURING TREATMENT

- Cure and seal Sika® Chapdur® Extra immediately after finishing using any of the products from Sika-floor® 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 TOOLS

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 Extra 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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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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Product Data Sheet

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