

Sika Chapdur® -Premix Non-Metallic Floor Hardener

Product Description	Sika Chapdur® -Premix 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® -Premix is added to slab surfaces to improve their resistance to abrasion and inhibit dust formation. Sika Chapdur® -Premix is suitable for all floors exposed to severe mechanical wear, such as: <ul style="list-style-type: none"> ■ Warehouses, quays, traffic lanes. ■ Workshops. ■ Car parks, service stations, garages etc.
Advantages	<ul style="list-style-type: none"> ■ High resistance to abrasion. ■ Reduces surface dust. ■ Improves resistance to impact. ■ Intrinsic colouring. ■ Easy application; Sika Chapdur® -Premix is sprinkled into the freshly placed concrete. ■ Saves time and labour costs by eliminating the need for a monolithic screed. ■ Even finish obtainable when properly smoothed.
Test certificate	Taber wheel wearing test-CEBT report no. 2352.6.607 of 10/1989. Taber wheel wearing test, Alexandria University.
Product Data	
Colour	Cement-grey, red (green on request). Note: Concrete substrate characteristics such as water content and cement quality may induce slight colour variations.
Packaging	30 kg bags.
Storage	Store in dry conditions
Shelf life	12 months from date of production if stored properly in original unopened packing.
Technical Data	
Apparent Density	~ 1.4 kg/l.
Mohs Hardness	7 - 8 (steel score)
Resistance to wear	Loss of weight in taber test after 1'000 cycle. Reference sample standard sand mortar containing cement 400 kg/m ³ = 4.6 gr. Chapdur® -Premix = 2.4 gr.
Application	
Consumption (average)	4.0 to 6.0 kg/m ² , yielding a surface strengthening coat of approx. 2 - 3 mm thickness.
Substrate preparation	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. Sikament®). 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.
Broadcasting of Chapdur Premix	The concrete slab is ready for the Chapdurs 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. Apply approx. 4 to 6.0 kg/m ² .
Compaction	Wait until the Chapdur-Premix 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.



Construction

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.
Curing	The Sika Chapdur® -Premix surface must be protected to prevent early dry-out, crazing and bloom. Immediately after smoothing, apply a coat of curing compound (Antisol-red) on the concrete (dosage approx. 100 – 150gr/m ²). Do not use any other type of curing compound
Joints	Contraction 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.
Curing time (depending on temperature and type of cement)	Foot traffic: 1 - 2 days. For light vehicle traffic: 7-10 days. Fully cured after: 28 days.
Safety Instructions	
Ecology	Do not dispose of into water or soil but according to local regulations.
Toxicity	Non-Toxic under the relevant health and safety codes.
Transport	Non-hazardous.
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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