Quality Needs Quality

Kemfloor CF

Mineral Dry Shake Floor Hardener

Description	**Kemfloor CF** is a quality controlled factory blended powder, which is ready to use on site. It consists of specially selected and graded metallic aggregates (corundum), Portland cement, and special additives to improve workability and makes it easy to trowel into the surface of fresh wet concrete. It is a flooring compound which provides a hard wearing, abrasion and impact resistant surface, and easy to trowel into the surface of a fresh wet concrete slab.
Where to use	**Kemfloor CF** provides extremely hardwearing abrasion and impact resistant surface to new concrete floor. The shake on method which ensures the hardwearing surface bonds monolithically to the base concrete. **Kemfloor CF** Provides one of the hardest wearing, impact resistant non-dusting floor surfaces in the following locations: • Workshops • Factories • Warehouses and Loading bays • Parking areas, garages, and subways • Shopping center • Public areas
Advantages	**Kemfloor CF** provides the following advantages: • High impact resistant and hard wearing • Slip resistant, non-stain, and non-dusting • Economic ready to use packing and reduces maintenance costs • Forms monolithic bond with fresh concrete base • Hard, dense surface, resistant to oils and grease

Properties

Density	2250 Kg/m² (28 days)	
Abrasion Resistance	Weight loss 1% Class AR 1.0	ASTM C779 EN 13892-4
Depth of wear	0.1 - 0.15 mm	ASTM C779, ASTM C944
Foot Traffic @25℃	12 – 24 hour	
Compressive Strength	70 – 72 N/mm² (after 28 days)	
Hardness	>3 (MOHS scale)	
Increase Abrasion Resistance	220% more than uncured concrete	
Colors	Grey, red, and other special colors on request	

It complies with EN 13813, EN 13892-4, ASTM C779, ASTM C944

Surface Preparation	The base concrete should have a minimum cement content of 300 Kg/m³ The concrete mix should be designed to minimize segregation and bleeding Free water cement ratios of less than 0.5 are required The concrete should have a slump of between 75 and 100 mm The base concrete should be laid and compacted in accordance with good concrete practice Accurate finished profile and minimum latency build up should be ensured Particular attention should be paid to bay edges and corners to ensure full compaction

Expansion Joints	Shall be installed in accordance with local building codes Never bridge an expansion, contraction, or construction joint
Application	**Stage I:** • The first application is made using 1/2 to 2/3 of the material required for the eventual end use • **Kemfloor CF** is evenly spread over the concrete surface • When the material becomes uniformly dark by the absorption of moisture from the concrete, this first application can be floated with wooden floats • On large areas, the disc of a power float may be used • It is important, however that the surface is not overworked **Stage II:** • Immediately after floating, the remaining **Kemfloor CF** is evenly spread over the concrete surface • Again moisture is absorbed and the surface can be floated in the same as before • Final finishing of the floor using the blades of a power float can be carried out when the floor has stiffened sufficiently so that no damage will not be caused
Theoretical coverage	The coverage of **Kemfloor CF** depends on the end use of the floor. Application rate should comply with coverage recommended for that use to give the following yields (layer thickness 2.5 – 3 mm): **Light traffic** 3 – 5 Kg/m^2 **Moderate traffic** 5 – 7 Kg/m^2 **Heavy traffic** 7-9 Kg/m^2
Precaution	Timing of application of **Kemfloor CF** is important, if it was too early, excess water will be absorbed and the floor surface will be lowered in strength and subjected to dusting. Also the dense aggregate of **Kemfloor CF** could sink and be lost from the surface. If it was too late, sufficient moisture will be available to completely hydrate the **Kemfloor CF** crazing and pitting of the surface are likely to happen. Zone edges are likely to suffer particularly from heavy impact wear, these can be given additional protection immediately, after the base concrete is leveled by scattering **Kemfloor CF** on a strip 100 – 150 mm wide along the zone edges. Areas where saw-cut transverse control joints are located can also be pretreated in this manner. **Kemfloor CF** is supplied ready to use on site never add cement or aggregate. When colored floors are required. It is strongly recommended that a job site trial area is made. Surface treatment of floor treated with **Kemfloor CF** is not recommended because of the high density low porosity surface finish.
Packaging	30 Kg Sack
Shelf life & Storage	**Kemfloor CF** has a shelf life of 12 months if kept in their original undamaged packing.

Health and Safety	• Use goggles, gloves and a breathing mask when applying • Apply forced ventilation in confined spaces • Remove splashes from skin with hand cleaner or soap and water • Eye splashes to be washed with plenty of water If ingested seek medical advice
Additional Information	**PROKEM** provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure **PROKEM** designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction **PROKEM** reserves the right to change the properties of its products All orders are accepted subject to our current term of sale & 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 **PROKEM** extends technical services to include after sales support to assist users in a proper handling of our product