

Kemfloor MF

Metallic Monolithic Floor Hardener

Description	Kemfloor MF is a quality controlled factory blended powder which is ready to use on site. It consists of specially selected and graded metallic aggregates as iron oxide or 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 surfaces and easy to trowel into the surface of a fresh wet concrete slab
Where to use	Kemfloor MF provides extremely hard wearing abrasion and impact resistant surface to new concrete floor. The shake on method which ensures the hard wearing surface bonds monolithically to the base concrete. Kemfloor MF Provides one of the hardest wearing, impact resistant non-dusting floor surfaces in the following locations: • Workshops. • Beverage Factories. • Warehouses and Loading bays. • Parking areas, garages and subways.
Advantages	Kemfloor MF 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	
Abrasion Resistance	Weight loss 1% (ASTM D 4060)
Compressive Strength	70 – 72 N/mm ² (after 28 days)
Hardness	>3 (MOHS scale)
Increase Abrasion Resistance	220% more than uncured concrete
Colors	Complies with ASTM D 4060
	Grey, red and other special colors on request
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 MF 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 MF 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 MF depends on the end use of the floor. Application rate should comply with coverage recommended for that use to give the following yields: Light traffic 3-5 Kg/m² Moderate traffic 5-7 Kg/m² Heavy traffic 7-9 Kg/m²
Precaution	Timing of application of Kemfloor MF 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 MF could sink and be lost from the surface. If it was too late, sufficient moisture will be available to completely hydrate the Kemfloor MF 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 MF 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 MF 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 MF is not recommended because of the high density low porosity surface finish.
Packaging	30 Kg Sack
Shelf life & Storage	Kemfloor HF has a shelf life of 12 months if kept in their original undamaged packing. Use goggles, gloves and a breathing mask when applying. Apply forced ventilation in confined spaces.
Health and Safety	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.