



Product Data Sheet
Edition 07.2008
Identification No. F - 2



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 (corundum) Portland cement and special additives to improve workability.

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
- Factories & Breweries
- Warehouses & Loading bays
- Car parks, Garages &Subways

Advantages

- High impact resistant & hard wearing.
- Slip resistant, non-stain & non-dusting
- Economic & reduces maintenance costs.

Properties

Abrasion Resistance	220% compared to abrasion resistance of concrete
Compressive Strength	70 – 72 N/mm ² (after 28 days).
Colours	Grey, red & other special colours on request

How to use

Base concrete:

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.

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.

Application

Stage 1:

- 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 or on large areas the dust of a power float may be used. It is important, however that the surface is not overworked.

Stage 2:

- Immediately after floating, the remaining KEMFLOOR MF is thrown evenly over the surface. Again moisture is absorbed and the surface can be floated in the same way 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 damage will not be caused.

Precaution during applications:

- Timing of application of KEMFLOOR MF is important too early excess water will be absorbed and the resistant floor surface will be of lower strength and subjected to dusting. Also the dense aggregate of KEMFLOOR MF could sink and be lost from the surface. Too late in sufficient moisture will be available to completely hydrate the KEMFLOOR MF crazing and pitting of the surface are likely to result.
- Bay edges are likely to suffer particularly from heavy impact wear, these can be given additional protection immediately after the base concrete is leveled sprinkle KEMFLOOR MF on a strip 100-150 mm wide along the bay edges. Steel trowel into the surface. Areas where saw-cut transverse control joints are located can also be pretreated in this manner.
- Ready to use KEMFLOOR MF is supplied ready to use on site never add cement or aggregate.
- Colored floors when a colored floors is required. It is strongly recommended that a job site trial area is laid.
- Surface treatment because of the high density low porosity surface finish of floors treated with KEMFLOOR MF are not recommended

Coverage:

The coverage of KEMFLOOR MF depends on the end use of the floor. Application rates should comply with coverage recommended for that use to give the following yields:

Light Traffic	3 – 5 kg/m ²
Moderate Traffic	5 – 7 kg/m ²
Heavy Traffic	7 – 9 kg/m ²

Packaging:

KEMFLOOR MF is supplied in sealed 25 kg bags.

Storage:

KEMFLOOR MF has a shelf life of 12 months if kept in original undamaged packing.

Health and Safety

This product is of low toxicity but normal precautions should be observed. Wear gloves, and if working overhead or spraying, wear goggles. Wash off any skin splashes with soap and water. Irrigating the eye with an eye bathing solution should treat eye contamination. Ensure adequate ventilation in confined spaces and use breathing aids. If ingested, drink milk or water and seek medical attention.

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 extends technical services to include after sales support to assist users in a proper handling of our products.