

MC-Floor 1223

3-component self-levelling Epoxy floor coating.

- PRODUCT DESCRIPTION:**
- **MC-Floor 1223** is a three-component coating system, pre-measured for direct mixing and application on-site.
 - After curing, **MC-Floor 1223** creates a smooth, bright, and slightly reflective surface, available in a variety of standard colors.

- PRODUCT PROPERTIES:**
- Fast application.
 - Chemically resistant – good resistance to a wide range of chemicals.
 - Durable – good abrasion resistance.
 - Hygienic – provides a dense, impervious, seamless.
 - Floor surface which is easily cleaned.
 - Solvent free – non tainting.
 - High aesthetic appeal – diverse colors, enhancing the working environment.

- AREAS OF APPLICATION:**
- **MC-Floor 1223** is designed for use in a wide range of light industrial environments where a lasting solution to floor maintenance problems is required.
 - It provides a dense, impervious, coloured and chemically resistant floor surface which is hygienic and easy to clean.
 - Typical applications include clean rooms, laboratories, plant rooms, light industrial plants, pharmaceutical and electronic industries.

- INSTRUCTION OF USE:**
- **MC-Floor 1223** should be applied by specialist applicators who must follow the procedures laid down in the product method statement. MC works with a network of such applicators that have been trained in the correct installation procedures. The construction process includes the following steps:
 - **Surface preparation:** It is essential that **MC-Floor 1223** is applied to clean, sound and dry surfaces in order that maximum bond strength is achieved between the substrate and the flooring system. All dust and debris should be removed prior to application of the product and its primer. Concrete or cement-based substrates must be at least 28 days old and have a moisture content not exceeding 5%. Laitance deposits on new concrete are best removed by sandblasting, grinding, or appropriate roughening.
 - **Mixing:**
 - **MC-Floor 1223** consists of three pre-measured components (substrate, hardener, and selected aggregate), which are ready for immediate on-site use. Part mixing of these components is not acceptable and will affect both performance and appearance of the finished floor.
 - Mixing should be carried out using either forced action mixer or heavy duty, slow-speed drill with proprietary mixing paddle attachment. The components should be mixed in suitably sized vessel.
 - Mix the resin component (Component A) in the container for 15-30 seconds, until a homogeneous mixture is obtained. Then add the hardener (Component B) and mix for another 30 seconds, until a uniform color and texture are achieved. After the resin and hardener components of **MC-Floor 1223** have been thoroughly mixed, the graded filler (Component C) must be slowly added to the mixture while continuously stirring.
 - Continue stirring for another 3–4 minutes to ensure the mixture is completely homogeneous, free of lumps, and that the aggregate particles are evenly dispersed throughout the material.
 - **Application:**
 - Ensure sufficient equipment, personnel, and materials are available to allow for continuous construction work on a given floor area.
 - The material should be poured onto the prepared and primed substrate as soon as mixing is complete. It should be spread to the required thickness preferably using a serrated trowel; with care taken not to overwork the resin, spreading evenly and slowly.

- Immediately after laying, the material should be rolled, using a spiked nylon roller, to remove slight trowel marks, and to assist air release. The rolling should be carried out using a 'back and forth' technique along the same path. An overlap of 50% with adjacent paths is recommended.
- The rolling process should continue for a minimum of 5 times on the same path, but should be prior to setting of the product.
- **Cleaning:**
 - MC-EP Primer and **MC-Floor 1223** should be removed from tools and equipments with MC-Thinner EP immediately after use.
 - Hardened material can only be removed mechanically.

TECHNICAL DATA:

Characteristics	Unit	Value	Comments
Coverage (*)	kg/m ² /mm	~ 1.64	
Compressive strength	N/mm ²	> 80	@7 days; BS 6319
Flexural strength	N/mm ²	> 30	@7 days; EN 196-1
Shore D		> 80	@7 days; ASTM D2240
Adhesion strength	MPa	> 1.5 (Destroying concrete)	@7 days; ASTM D7234-22
Walking load resistance	Hours	24	
Vehicle load resistance	Days	7	
Chemical resistance	Days	7	

(*) Coverage figures are theoretical – due to wasteful factors and the diversity and nature of the substrates that may be present, actual coverage figures will be reduced.

CHEMICAL PROPERTIES: **MC-Floor 1223** exhibits excellent resistance at ambient temperatures to a wide range of industrial chemicals. Specific data are available upon request.

PRODUCT CHARACTERISTICS:

Packaging	MC-Floor 1223: 25.5 kg/set. Primer and cleaning products: MC-EP Primer: 17.5 kg/can; MC-Thinner EP: 5 liters/can.
Shelf-life & Storage	All products have a shelf life of 12 months if stored in a dry place in its original, unopened packaging. Store in a dry place at a temperature of 5°C - 30°C, away from heat sources and open flames, in unopened packaging. Storage at higher temperatures may reduce the shelf life.
Precautions Health and safety	Avoid contact with skin, eyes, or ingestion. Work in a well-ventilated area and avoid inhaling solvent vapors. Wear full protective gear, including gloves and safety glasses. If working in enclosed spaces, respiratory protection equipment is required. Use skin protective cream for added protection. If skin contact occurs: wash with plenty of clean water and soap. If eye contact occurs: rinse immediately with clean water and seek medical attention. If swallowed: do not induce vomiting; seek medical attention immediately.
Fire	MC-EP Primer and MC-Thinner are flammable. Keep away from sources of ignition. No smoking. In the event of fire extinguish with CO ₂ or foam. Do not use a water jet.
Disposal	Spillages of component products should be absorbed on to earth, sand or other inert material and transferred to a suitable vessel. Empty packaging should be in accordance with local waste disposal regulations.
Additional information	Technical notes regarding survey and preparation instructions for vinyl flooring installation are available. Please request them from your local MC office. MC manufactures a wide range of products specifically designed for the specialized flooring industry. These include chemical-resistant coatings, self-leveling epoxy coatings, and high-abrasion-resistant trowel-applied screeds.

Safety Advice: Please take notice of the safety information and advice given on the packaging labels and safety information sheet.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

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