

M-FLOOR 101 – HIGH BUILD EPOXY FLOOR PAINT – RAPID CURE

M-FLOOR 101 - High Build Epoxy Floor Paint - Rapid Cure

This is a fast-curing version of M-FLOOR 100 Epoxy Floor Coating designed to be used in lower temperatures or when a fast return to service is required. It is a two-pack solvent-free high-build epoxy resin system for application as a heavy-duty floor coating for concrete, steel, and other substrates.

M-FLOOR 101 – High Build Epoxy Floor Paint – Rapid Cure will provide a chemical and abrasion resistant smooth gloss finish to which [M-FLOOR 900 – Fine Quartz Aggregate](#), [M-FLOOR 901 – Medium Quartz Aggregate](#) or [M-FLOOR 902 – Course Quartz Aggregate](#) can be added if required to produce a safe, non-slip finish.

M-FLOOR 101 is low odour during application and produces a seamless, hard wearing, hygienic floor finish also available in a standard grade for use in summer months/ warmer conditions.

Typical Uses

- As a faster drying floor coating system when a quick return to service is required or when temperatures are low.
- As a waterproof, chemical resistant coating in food preparation areas, breweries, abattoirs, bottling factories, warehouses, etc.
- As an internal lining for concrete, steel, or brickwork storage tanks.
- It is particularly suitable for chemical bunds.

Please contact us to discuss your project before purchasing this material to confirm suitability.

Application Guide

Surface Preparation - Metal - Grit Blast

- All oil and grease must be removed from the surface using an appropriate cleaner such as MEK or similar type solvent.
- All surfaces must be abrasive blasted to **ISO 8501/4 Standard SA2.5 (SSPC SP10/ NACE 2)** minimum blast profile of 75 microns using an angular.
- Once blast cleaned the surface must be degreased and cleaned using MEK or similar type solvent.
- If a delay is likely to occur between blasting and application then it is recommended that a coat of [M-PRIME 200 – Aluminium Based Metal Primer](#) to prevent flash rusting.

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Surface Preparation - Concrete Existing Concrete

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- If the concrete surface is contaminated, pressure wash using clean water.
- Once the concrete is dry lightly abrasive blast or scarify taking care not to expose the aggregate.
- Clean all dust and debris from the surface and take several moisture readings (moisture content should be below 6%).

New Concrete

- Allow new concrete to cure for a minimum of 21 days, lightly abrasive blast or scarify to remove any surface laitance.
- Clean all dust and debris from the surface and take several moisture readings (moisture content should be below 6%).

Environmental Checks

- Do not apply to wet or uncured concrete surfaces.
- Do not apply at temperatures of 3°C or less.

Mixing

- Transfer the contents of the Curing Agent unit into the Base container.
- Using a low speed electric paddle mixer, mix the 2 components until a uniform material free of any streaks is achieved.
- Once mixing is complete use the mixed paste as soon possible after mixing.

Product Application

Brush & Roller

- Pour the mixed material into a paint kettle or paint tray (this will maximise the usable life).
- Stripe coat all edges, joints & corners.
- Once the stripe coat has cured and is capable of being overcoated, apply a basecoat at a nominal rate of 0.25 to 0.3kg/m².
- Once the basecoat has cured sufficiently (minimum of 14 hours and before a maximum of 48 hours), apply a second coat at the same rate.
- NOTE: If a non-slip finish is required, broadcast an appropriate aggregate such as Quartz or Dynagrip immediately after the first coat. Brush off excess aggregate the following day and before applying the second coat.

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Curing

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- Allow to cure for a minimum of 24 hours @ 20°C prior to light foot traffic access and 48 hours @ 20° prior to vehicular trafficking.
- 7 days cure @ 20°C is recommended prior to exposure to chemicals.
- Lower temperatures will extend the curing time.

Technical Information

Appearance	Colours:	Grey/ Red (BS4800 or RAL colours on request)
Usable Life	20°C 10°C	45 minutes 90 minutes
Coverage	5kg pack is sufficient to treat 8.3-10.0 m2 of surface with recommended two coats, providing an overall d.f.t. of 400-480 microns.	8.3-10.0 m2
Cure Times at 20°C	Tack free time Hard dry time Full chemical resistance	6 hours 10 hours 7 days
Adhesion strength	Concrete Mild steel	3.9MPa (concrete failure) >12 MPa
Chemical Resistance	Chemical resistance: excellent resistance to dilute acids, dilute alkalis, oil, petrol, diesel, vegetable oils, raw sewage etc. Please consult our Technical Department for specific advice.	
Storage Life	Store in dry conditions, out of direct sunlight, at temperatures between 10°C and 25°C. Minimum shelf life of 12 months when stored in original, unopened containers in accordance with manufacturer's instructions	

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Legal Notice

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It is the responsibility of the customer to determine the products suitability for use.

Maxkote accepts no liability arising out of the use of this information or the product described herein.

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