

EPOCOTE MMA-F

Flexible Waterproof Coating

DESCRIPTION

EPOCOTE MMA-F is a two component rapid cure flexible liquid-applied waterproof coating. The applied coating provides an extremely durable finish whilst retaining a degree of elasticity. It's flexibility ensures that the integrity of the membrane is not compromised even in the event of a degree of movement in the structure to which it has been applied. It remains completely impervious to water and when subjected to normal service conditions it will provide an effective barrier to the transmission of water and ground moisture for the life span of the structure.

USES

EPOCOTE MMA-F is used as a resilient waterproof and chemical resistant membrane for podium decks, walkways, balconies, car parks, ramps and other structures where a durable waterproof coating is required. It is particularly suitable for use where the waterproof layer must retain a degree of elasticity. The product exhibits very rapid curing characteristics making it suitable for application where an early return to service is required or where the construction sequence demands rapid installation and curing of the membrane. The product is also particularly suitable for application to asphalt substrate due to its excellent adhesive properties making it very suitable for the refurbishment of balconies and raised walkways. Any penetrations through the coating can be sealed with resin anchors based on Vinylester, Polyester or Epoxy resin.

ADVANTAGES

- Extremely rapid curing.
- Excellent adhesion to concrete, masonry and other porous substrates.
- Excellent adhesion to tarmac, bitumen and other asphalt substrates.
- The cured coating retains a degree of elasticity.
- Good chemical resistance.
- Resistant to thermal shock.
- Hygienic and easily cleaned.

Property	Value
Colour	Grey Any BS 4800 or RAL colour can be supplied
Pot life @ 20°C Pot Life @ 10°C	15 minutes 20 minutes
Curing	Foot traffic after 2 hrs @ 20°C. Vehicular traffic after 4 hrs at 20°C
Elongation @ break	250 %
Adhesive strength to asphalt	3 MPa (Substrate failure)
Adhesive strength to concrete	3.4 MPa (Substrate failure)
Temperature Range	During application: +5°C to +40°C In service: -30°C to +90°C
Dry film thickness	250µm per coat

PROCEDURE

Surface Preparation: Concrete and cementitious substrates should be a minimum of 28 days old and the residual moisture content should be less than 6%. The concrete should be clean and free from dust, laitance, grease, oil and other deleterious substances. Any defect in the substrate should be repaired using a suitable PREMCRETE repair product. The top surface of the substrate to which the coating is to be applied should be prepared by mechanical means such as diamond grinding or grit blasting to ensure that a good mechanical key is achieved. Tarmac and asphalt surfaces must be clean, dry and free from contaminants. New tarmac should be allowed to weather to ensure any excess oils are released before application of the coating.

Substrate Priming: Concrete substrates should be primed using EPOPRIME MMA applied with a brush or roller at a rate of 0.3 kg/M². The surface profile of the substrate will greatly affect the application rate that is achieved. Allow the primer to cure for a minimum of 45 minutes before application of the EPOCOTE MMA-F commences. Primer is not normally required for application to asphalt and tarmac substrates.

Mixing: EPOCOTE MMA-F is supplied as a two-component product consisting of the Base component and the Catalyst component. The Catalyst component should be mixed into the Base component and mixed thoroughly using a mechanical mixing paddle for at least two minutes until a uniform consistency is achieved.

Application: EPOCOTE MMA-F should be applied immediately by brush or lambswool roller at a nominal rate of 0.5 kg/M² ensuring that the substrate is fully wetted out. Following a minimum of 1 hour, a second coat should be applied at the same rate, ideally applied at right angles to the first coating to ensure maximum coverage of the substrate resulting in complete integrity of the waterproof layer. A quartz aggregate may be broadcast into the coating. If a non-slip finish is required, then the aggregate should be broadcast into the first coat before removing the excess and applying the second coat to provide a sealed non-slip finish. If there are subsequent finishes that require a mechanical key to be provided by the coating, for example tiles or cement-based screeds, then the quartz aggregate should be broadcast into the second coat.

Equipment Cleaning: Clean equipment using PREMCRETE CLEANING SOLVENT immediately before the coating cures.

Curing: Allow 2hr @ 20°C before light foot traffic commences and 4hr @ 20°C before vehicular traffic. The coating will be fully chemical resistant after 24hr @ 20°C.

PACKAGING & COVERAGE

Pack Size: 1 Kg and 10 Kg

Coverage: 0.5kg per M² per coat. A 10kg pack is sufficient to coat 10 M² with the recommended two coat treatment providing an overall dry film thickness of 500µm. Coverages may vary depending on the surface profile.

STORAGE & SHELF LIFE

Store in dry conditions at temperatures between 5°C and 20°C. It is important to provide adequate ventilation to the storage area.

LIMITATIONS

Do not apply to wet or uncured surfaces. EPOCOTE MMA-F will taint food during application due to strong odours.

HEALTH & SAFETY

See separate material safety datasheet.