TECHNICAL DATA SHEET

EPOFLEX MMA



Flexible Methyl Methacrylate waterproof coating

PREMCRETE

EPOFLEX MMA





TYPE A
POST APPLIED

WATER RESISTANT

GAS RESISTANT

RADON RESISTANT

VOC RESISTANT

BDA CERTIFICATE

UK CA
UK CONFORMITY

25 YEARS
PRODUCT WARRANTY

DESCRIPTION

EPOFLEX MMA is a two-component, rapid-cure flexible waterproof membrane. The applied membrane provides an extremely durable finish which retains a degree of elasticity for the lifetime of the structure.

It is highly impact resistant, making it suitable for areas which are to be trafficked. It remains completely impervious to water and when subjected to normal service condition it will provide an effective barrier to water and moisture for the
lifespan of the structure.

A slip resistant finish can be achieved by incorporating a quartz aggregate into the membrane.

USES

EPOFLEX MMA is designed for use as a waterproof membrane for application to roofs, podium slabs, carpark decks and suspended walkways. It is particularly suitable for application to structures that are susceptible to minor cracking.

The flexibility of the cured membrane ensures that the integrity of the membrane remains uncompromised in the event of a degree of movement in the base substrate.

ADVANTAGES

- Rapid curing.
- Excellent chemical resistance.
- One hour curing for foot traffic.
- 24 hours curing for vehicular traffic.
- Suitable for internal and external use.
- Gas and hydrocarbon resistant.

EPOFLEX MMA

TECHNICAL & PERFORMANCE PROPERTIES

Property	Test Method	Value
Colours	N/A	Red any BS4800 or RAL colour can be supplied.
Pot Life @20°C	N/A	25 minutes
Curing Time @ 20°C	N/A	Foot traffic after 1 hr Vehicular traffic after 24 hrs
Temperature range during application	N/A	-10°C to +40°C
Temperature range in service	N/A	-40°C to +60°C
Elongation @ Break	N/A	120%
Adhesive bond to concrete	N/A	>3 MPa (Substrate failure)
Dry film thickness	N/A	2 – 3mm
Water Vapour Transmission Rate	EN ISO 15106-3	3.13 g/m²/day
Resistance to Delamination	EOTA TR004	380 kPA
Tensile Strength	EN ISO 527-1	3.72 MPa
Fatigue Movement	EOTA TR008	No Leakage
Reaction to Fire	EN 13501-1	E/ Efl
Gas and VOC Transmission Rates		
Carbon Dioxide	ISO 15105-1	17/ml/m²/day atm
Methane	ISO 15105-1	11.4 ml/m²/day atm
VOC Resistance	ISO 15105-2	Pass

Further independent test certificates are available upon request relating to VOC resistance.

EPOFLEX MMA

INSTALLATION 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 which is supplied as a two-component system, a Base component, and a Catalyst component. The product should be applied with a brush or roller at a rate of 0.4 – 0.8 kg/m^2. 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 EPOFLEX MMA commences. Primer is not normally required for application to asphalt and tarmac substrates..

Mixing

EPOFLEX MMA is supplied as a two-component system, consisting of a Base and Catalyst component. The catalyst should be mixed into the base component using a mechanical mixing paddle for at least two minutes until a uniform consistency is achieved.

Application

EPOFLEX MMA is supplied in two grades. The Vertical Grade is for use on upstands and for detail work, whilst the Horizontal Grade is for application to horizontal deck areas. Fibremat should be incorporated within the horizontal applications, but is not required for vertical substrates.
Typically, upstands and detail work is carried out before the horizontal deck areas are coated. Once mixed, Epoflex MMA should be applied immediately onto the prepared substrate and spread to the correct thickness using a roller.
Apply the first coat of EPOFLEX MMA (approx.0.65kg/m^2) and immediately embed the Fibremat reinforcing layer into the wet coating.
Laps between adjacent sheets of Fibremat should be 50mm. Immediately after the Fibremat has been embedded, a further 0.65kg/m^2 should be applied before de-aerating with a spiked roller. Where new wet Epoflex MMA is being applied to existing dry Epoflex MMA, allow for 100mm overlap. If a non-slip finish is required, then an appropriate quartz aggregate should be broadcast into the freshly applied coating at a rate of 6-15kg/m2. Once the membrane is hardened the excess aggregate may be swept off.

Curing

Allow 1 hr @ 20°C for light foot traffic commences and 24 hr @ 20°C before vehicular traffic. The membrane will be fully chemical resistant after 24 hr @ 20°C.

Equipment Cleaning

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

EPOFLEX MMA

PACKAGING & COVERAGE



Pack Size

Horizontal Grade: 10kg
Vertical Grade: 10kg
Primer: Epoprime MMA 5kg (10m^2)
Fibremat: 1m x 100m

Coverage

A 10kg pack of Epoflex MMA will cover 7.5 m^2 with the recommended 2 coat treatment at 2mm thickness onto a smooth surface.

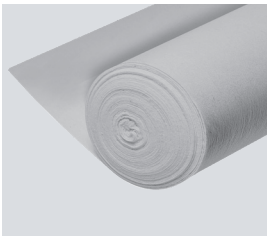
STORAGE & SHELF LIFE

Store in dry conditions at temperatures between 5°C and 20°C. It is important to provide adequate ventilation to the storage area. This product has a shelf life of 12 months, when stored in un-opened containers.

HEALTH & SAFETY

See separate Material Safety Data Sheet.

ANCILLARY PRODUCTS



FIBREMAT



EPOPRIME MMA

BDA Agrément
BAB-22-249-S-A-UK

44 Macadam Way | West Portway | Andover | Hampshire | SP10 3XW
www.premcrete.com | 02380 276166 | sales@premcrete.com

PREMCRETE