

Flowfast Membrane LM

Product sheet

Product description

A 2-component, medium viscosity, urethane-modified, pre-formulated 100% solids membrane based on acrylic monomers. Mixed with Flowfast Catalyst to initiate curing.

Flowfast Membrane LM is a low modulus variant of Flowfast Membrane with increased flexibility.

Uses

Flowfast Membrane LM is designed as a simple to apply, highly elastomeric liquid waterproofing membrane and coating, for outdoor or indoor use.

The cured product is a very flexible, crack-bridging coating that retains its flexibility and crack-bridging performance in service even when the temperature reaches below -30°C.

It is mainly used for:

- Joint filling - for joints with low dynamic movements.
- The waterproofing of Pedestrian or Vehicular trafficked areas (Balconies, Car Parks etc.).
- The protection and waterproofing of Stadium Terracing.
- The waterproofing of containment structures including reservoirs, waste and contaminated material storage structures.

Flowfast Membrane LM can be applied at a whole range of ambient and substrate temperatures (-10°C to +35°C) onto cementitious based screeds, concrete, filled bitumen/asphalt, metal, ceramic tile and wood substrates.

Flowfast Membrane LM contains a UV protective barrier. When exposed to direct sunlight over time slight colour shading may occur. In such applications the use of a surface sealer is recommended.

In general, coatings based on Flowfast Membrane LM should be coated with a flexible sealer such as Flowfast Flexible Seal.

Environment & Health

Flowfast Membrane LM is a solvent free product but has an odour associated with it, ensure adequate ventilation and/or extraction. Follow the appropriate Occupational Health and Safety guidelines applicable to the location where the application is undertaken.

For more information, please refer to the safety datasheets for the individual components, available from Flowcrete upon request and sent with each delivery.

Ratio of components (by weight of Flowfast Membrane LM)

@ 30°C	add 0.67% Flowfast Catalyst	(200 g catalyst per 30 kgs Flowfast Membrane LM)
@ 20°C	add 1.17% Flowfast Catalyst	(350 g catalyst per 30 kgs Flowfast Membrane LM)
@ 10°C	add 2.3% Flowfast Catalyst	(700 g catalyst per 30 kgs Flowfast Membrane LM)
@ 0°C	add 4% Flowfast Catalyst	(1200 g catalyst per 30 kgs Flowfast Membrane LM)

1 cm³ Flowfast Catalyst = 0.64 g

1g Flowfast Catalyst = 1.57 cm³

For application temperatures below 0°C, please consult the Flowcrete Technical Department.

For substrate preparation please see the Flowfast Preparation and Application Guidelines document.

Add the required amount of catalyst to the resin. Mix with a slow speed drill and helical spinner, taking care not to entrain air. Apply using a trowel or squeegee, exceeding the minimum application layer thickness of 1mm (1.23 kg/m²) to allow a continuous, unbroken resin film, which ensures full through cure.

Application temperature

The recommended substrate temperature is 0 - 25°C, but no less than -10°C and to a maximum of 30°C. The temperature of the substrate should exceed the "dew point" by 3°C during application and hardening.

For application temperatures below 0°C, please consult the Flowcrete Technical Department.

Application time/pot life

Ready-mixed product should be used within 15 minutes at a temperature of 20°C. At higher temperatures the application time is shorter.

Curing time (at 20°C)

The product is fully hardened after 60 minutes.

Colour

Natural (a limited range of colours is available on request).

Solids content

Approx. 100 %

Finish

Eggshell.

Density

Approx. 1.23 kg/litre.

Storage

6 months in unopened pack. The date of manufacture is given on the label in the format xxxxxx-140708C3, where the date is 2014 July 8th. xxxxxx and C3 are internal codes. Storage temperature between 5°C and 30°C (out of direct sunlight), optimal 15-20°C. Flash point + 11.5°C. Protect from weather and moisture/contaminant ingress.

Packaging

The product is delivered in 30 kg pails (25 litres), single component. Order the Flowfast Catalyst separately.

Technical information on cured product

	Samples tested at	20°C	-20°C	
Shore A hardness		> 85 IRHD	-	NFP 98285
Shore D hardness		55	-	DIN 53505
Tensile Strength		5.0 N/mm ²	4.3 N/mm ²	ISO 527
Elongation		330 %	315%	ISO 527
Modulus of elasticity		8.3 N/mm ²	225 N/mm ²	ISO 527
Abrasion 1000 cycles		64 mg	-	ISO 7784-2
Dynamic crack-bridging		> 5 mm	> 5 mm	BPG (VTT at -20°C)

Note: Samples were kept at -20°C for 24 hours before testing.

Any suggested practices or installation specifications for the composite floor or wall system (as opposed to individual product performance specifications) included in this communication (or any other) from Flowcrete UK Ltd constitute potential options only and do not constitute nor replace professional advice in such regard. Flowcrete UK Ltd recommends any customer seek independent advice from a qualified consultant prior to reaching any decision on design, installation or otherwise.