Flowfast Sprayable Membrane

Product sheet

Product description

A 2-component, medium viscosity, urethane-modified, 100% solids resin binder based on acrylic monomers.

Uses

Flowfast Sprayable Membrane is designed as a cold spray applied, highly elastomeric liquid waterproofing membrane and coating, for outdoor or indoor use. The cured product is a very flexible, crack-bridging membrane that retains its flexibility and crack-bridging performance in service even when the temperature reaches below -20°C. It is mainly used for waterproofing and protection of:

- Pedestrian or Vehicular trafficked areas (Balconies, Car Parks etc.).
- Stadium Terracing.
- Containment structures including reservoirs, waste and contaminated material storage structures.
- Concrete and metal railway bridges (including directly under track ballast).
- Tunnels, channels and dam structures.
- As a bridge deck waterproofing membrane – asphalt (at temperatures up to 250°C) can be applied directly onto the membrane.
- Sub-grade waterproofing of buildings and civil engineering structures (including underneath ground slabs).

Flowfast Sprayable Membrane can be easily applied to horizontal and vertical surfaces at ambient and substrate temperatures from -10°C to +35°C onto cementitious based screeds, concrete, filled bitumen/asphalt, metal, ceramic tile and wood substrates.

The substrate must be dry, firm, solid and free of dust, fat and oil. Laitance and loose particles must be thoroughly removed (e.g. by shot blasting). Fats, oils and surface humidity (condensation) can be removed by hot air flame lance. Before application of the membrane, a suitable Flowfast primer must be applied.

When exposed to direct sunlight over time slight colour shading may occur. In applications where the membrane will be exposed to direct sunlight, a UV stable version is available. Alternatively the use of a surface sealer is recommended.

Environment & Health

Flowfast Sprayable Membrane 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.

Ratio of components (for 60kg unit of Flowfast Sprayable Membrane - based on substrate temperature)

@ 30°C	add	650g Flowfast Catalyst to Part B	1 cm^3 Flowfast Catalyst = 0.64 g
@ 20°C	add	850g Flowfast Catalyst to Part B	
@ 10°C	add	1300g Flowfast Catalyst to Part B	1g Flowfast Catalyst = 1.57 cm^3
@ 0°C	add	2200g Flowfast Catalyst to Part B	

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

Stir the A and B components to ensure uniform distribution of the paraffin. Add the required amount of catalyst to **Part B** and mix with a slow speed drill and helical spinner, taking care not to entrain air. Spray apply using 2 component (1:1 by volume) high pressure pneumatic airless mixing and spray equipment (e.g. 60:1 Graco Style Double Pump with superchargers) capable of handling 2 component resin formulations at a pressure of 100 – 150 bar. Exceed the minimum application layer thickness of 1mm (1.23 kg/m^2) in a continuous, unbroken resin film to ensure full through cure.

Note: Do **not** cross contaminate Part A and Part B components.
Do **not** add catalyst to Part A component.

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.

Application time/pot life

When the Part B has been mixed with the catalyst, it should be sprayed 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 60 minutes after application.

Colour

Grey (close to RAL 7040).

Finish

Eggshell.

Solids content

Approx. 100 %.

Density

Approx. 1.2 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 the following packs.

Unit		Part A	Part B
60 kg	(50 litres)	30 kg	30 kg
250 kg	(200 litres)	125 kg	125 kg

Technical information on the cured product

Samples tested at	**20°C**	**-20°C**	
Shore A hardness	> 85	-	NFP 98285
Shore D hardness	55	-	DIN 53505
Tensile Strength	9.6 N/mm^2	9.7 N/mm^2	ISO 527
Elongation	390 %	390 %	ISO 527
Modulus of elasticity	84 N/mm^2	520 N/mm^2	ISO 527
Abrasion 1000 cycles	64 mg	-	ISO 7784-2
Dynamic crack-bridging	> 5 mm	> 5 mm	BPG

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Flowcrete UK Ltd is an RPM company