

Flowfast Roller Applied / Sprayable Membrane



Product Description:

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

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.

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).

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	



Flowfast Roller Applied / Sprayable Membrane

Application:

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/m²) 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.

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

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.

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

Curing time: (at 20°C)

The product is fully hardened 60 minutes after application.

Colour:

Grey (close to RAL 7040).

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.

Solids content:

Approx. 100 %.

Finish:

Eggshell.

Density:

Approx. 1.2 kg/litre.

Storage:

6 months in unopened pack.

Flash point + 11.5°C.

Storage temperature between

5°C and 40°C (out of direct sunlight), optimal 15 – 20°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

Any recommendation or suggestion relating to the use of the products made by Flowcrete UK Ltd, whether in its technical literature, or in response to a specific enquiry, or otherwise, is based upon data believed to be reliable, however the products and information are intended for use by Customers having requisite skill and know-how in the industry and therefore it is for the Customer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that the Customer has done so at its sole discretion and risk.

