Flowfast 224

Product sheet

Product description

A 2-component, clear, medium viscosity methyl methacrylate (MMA) based binder for Flowfast floor coatings.

Uses

Flowfast 224 is an elasticised resin binder intended for the formulations of flexible membranes and coating systems exposed to sub zero temperatures. It is mainly used for:

- Waterproofing and shock absorbing membrane on ramps, bridges and in off shore applications.
- Flexible floor coverings, especially if exposed to low temperatures (e.g. freezers).
- Outdoor applications exposed to heavy mechanical loads and rapid variation of temperature.

Industrial flooring resins (graded from flexible to medium hardness, depending on the ratio) can be achieved by mixing Flowfast 224 and Flowfast 205 Standard Binder on site.

In general, coatings based on Flowfast 224 should be coated with a flexible sealer such as Flowfast 306 Flexible Seal.

Environment & Health

Flowfast 224 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 (by weight of Flowfast 224)

@ 30°C	add 1% Flowfast Catalyst	1 cm^3 Flowfast Catalyst = 0.64 g
@ 20°C	add 2% Flowfast Catalyst	
@ 10°C	add 4% Flowfast Catalyst	1g Flowfast Catalyst = 1.57 cm^3
@ 0 to -10°C	add 5% Flowfast Catalyst	

Add the required amount of catalyst to the resin. Mix with slow speed drill and helical spinner, taking care not to entrain air. Exceed the minimum application layer thickness 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 -10°C, please consult the 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 40 minutes.

Colour

Transparent

Solids content

Approx. 100 %

Finish

Eggshell.

Density

Approx. 1.0 kg/litre.

Storage

6 months in unopened pack.
Storage temperature between 5°C and 40°C (out of direct sunlight).
Flash point + 11.5°C.

Packaging

The product is delivered in the following packs.

Unit	
50 kg	(50 litres)
180 kg	(180 litres)

Technical information on cured product

Tensile strength +20°C	4.5 N/mm^2	DIN 53455
Tensile strength -10°C	14.5 N/mm^2	DIN 53455
Elongation at maximum strength	286%	
Elongation at fracture +20°C	286%%	
Elongation at fracture -10°C	102%	
Modulus of elasticity +20°C	23 N/mm^2	
Modulus of elasticity -10°C	632 N/mm^2	
Density, 20°C	28 g/cm^3	DIN 53479

2013.08, 04 UK

Flowcrete UK Ltd
The Flooring Technology Centre Booth Lane
Sandbach Cheshire CW11 3QF UK.
Tel: +44 (0) 1270 753000 Fax: +44 (0) 1270 753333
Email: uk@flowcrete.com
Flowcrete UK Ltd is an RPM company