

## Flowfast Flexible Binder (blu)

### Product sheet

#### Product description

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

**Note:** This material is supplied in blue tins.

#### Uses

Flowfast Flexible Binder 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 Flexible Binder and Flowfast Standard Binder on site.

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

#### Environment & Health

Flowfast Flexible Binder 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 Flexible Binder)

@ 30°C	add 1% Flowfast Catalyst	1 cm <sup>3</sup> Flowfast Catalyst = 0.64 g
@ 20°C	add 2% Flowfast Catalyst	
@ 10°C	add 4% Flowfast Catalyst	1g Flowfast Catalyst = 1.57 cm <sup>3</sup>
@ 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 10 - 25°C, but no less than 0°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 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.

**Finish**

Eggshell.

**Solids content**

Approx. 100 %

**Density**

Approx. 1.0 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 8<sup>th</sup>. xxxxxx and C3 are internal codes.

Storage temperature between 5°C and 30°C (out of direct sunlight).

Flash point + 11.5°C.

Protect from weather and moisture/contaminant ingress.

**Packaging**

The product is delivered in the following packs.

Unit      Flowfast Flexible Binder (blu)

50 kg      (50 litres)

180 kg      (180 litres)

**Note:**      This material is supplied in blue tins.

**CE Mark**

Flowfast Flexible Binder was tested as part of the Flowfast Terrosso system (as a binder).

See the Declaration of Performance for details.

**Technical information on cured product**

Tensile strength +20°C	4.5 N/mm <sup>2</sup>	DIN 53455
Tensile strength -10°C	14.5 N/mm <sup>2</sup>	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 <sup>2</sup>	
Modulus of elasticity -10°C	632 N/mm <sup>2</sup>	
Density, 20°C	28 g/cm <sup>3</sup>	DIN 53479

*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.*