

## Flowfast F1 Mortar (blu) (Cold Grade, 0 to -20°C)

### Product sheet

#### Product description

Flowfast F1 Mortar (blu) is a 2 component, ready to use, repair mortar, based on methyl methacrylate (MMA) resin and designed for cementitious substrates that have a Relative Humidity up to 97% (to BS 8204). The catalyst is included in the Filler component.

**Note:** This material is supplied in blue tins.  
Do not use Cold Grade components with Standard Grade components.

#### Uses

A fast and durable repair mortar, used to repair damages, holes and imperfections in concrete substrates. Can be used in machine bases, joint arises, drill and bolt holes etc.

**Note:** The substrate must be surface dry, firm, solid and free of dust, fat, oil and laitance. All loose particles must be removed. Porous substrates should be primed with Flowfast Standard Primer (blu) until a continuous resin film is obtained, onto which a light scatter of dried sand or quartz is broadcast.

**Note:** Please refer to the Product data for Flowfast Accelerator (blu) for details of using Flowfast Standard Primer (blu) at temperatures less than 0°C.

The product is applied by trowel or wooden float at a thickness of 6 to 25mm. For layer thicknesses greater than 25mm, see section on mix ratios.

#### Environment & Health

Flowfast F1 Mortar (blu) 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.

#### Application temperature

The substrate temperature must be in the range 0 to -20°C.

For application temperatures above 0°C, use Flowfast F1 Mortar (Standard Grade, 0 to +30°C).

#### Application time/pot life

Ready-mixed product should be used within 15 minutes.

#### Curing time (at 20°C)

The product is fully hardened after 30 minutes.

#### Colour

Grey.

#### Finish

Eggshell.

## Solids content

Approx. 100 %

## Density

Powder Component approx. 1.3 kg/lit.

Liquid Component approx. 0.94 kg/lit.

## Storage

Shelf life is 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 (liquid + powder) is delivered in the following packs.

Unit	Flowfast F1 Mortar (blu) Cold Grade Resin	Flowfast F1 Mortar (blu) Cold Grade Filler
20 kg (9.5 litres)	2.2 kg	17.8 kg

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

## Technical information on cured product and mix ratios for minimum layer thickness

Density @ 20°C	2.12 kg/l	DIN 53479
Compressive strength	100 N/mm <sup>2</sup>	DIN 53454
Tensile strength	16.5 N/mm <sup>2</sup>	DIN 53455
Elongation at fracture	0.3%	
Flexural strength	28 N/mm <sup>2</sup>	DIN 53452, 64mm

Mix ratios for Flowfast F1 Mortar	Quantity (kg)	Minimum layer thickness (mm)
Powder component Liquid component	17.8 2.2	6
Powder component Liquid component Dry quartz sand 2-8mm	17.8 2.2 8	25
Powder component Liquid component Dry quartz sand 2-8mm Dry quartz aggregate 8-16mm	17.8 2.2 3 12	50
Powder component Liquid component Dry quartz sand 2-8mm Dry quartz aggregate 8-16mm Dry quartz aggregate 16-32mm	17.8 2.2 4.8 6.4 8	120

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