

## Flowfast F1 Mortar Cold Grade (wht) (0 to -25°C)

### Product sheet

#### Product description

Flowfast F1 Mortar Cold Grade is a 2 component, ready to use repair mortar, based on methyl methacrylate (MMA) resin. The catalyst is included in the Filler component. The resin is delivered in white coloured tins. Formerly named Flowfast F1 Mortar Cold Grade (new).

#### Uses

For use in cold stores, during winter etc. where the temperature is in the range 0 to -25°C. 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. Porous substrates should be primed with Flowfast Standard Primer (wht) until a continuous resin film is obtained, onto which a light scatter of dried sand or quartz is broadcast. For application and mixing at temperatures below 0°C, Flowfast Accelerator (wht) must be mixed into Flowfast Standard Primer (wht) resin prior to adding the Flowfast Catalyst (please see Flowfast Accelerator (wht) product data sheet for further details).

#### Ratio of components (by weight of Flowfast Standard Primer (wht))

Temperature	Flowfast Accelerator	Flowfast Catalyst
0 to -5°C	0.5% and mix	6%
-5 to -10°C	1.0% and mix	6%
-10 to -15°C	1.5% and mix	6%
-15 to -20°C	2.0% and mix	6%
-20 to -25°C	2.5 - 3.0% and mix	6%

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.

**Note:** Do not use Cold Grade components with Standard Grade components.

#### Environment & Health

Flowfast F1 Mortar 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 -25°C.  
The Flowfast F1 Mortar Cold Grade must be cooled down to at least 0°C before being applied.

#### Application time/pot life

Ready-mixed product should be used within 20 minutes at -10°C and within 30 minutes at -25°C. At higher temperatures the application time is shorter.

### Curing time

The product is fully hardened within 3 hours.

### Finish / Colour

Eggshell, Medium Grey (near to RAL 7030)

### Solids content

Approx. 100 %

### Density

Powder Component approx. 1.35 kg/lit.

Liquid Component approx. 0.93 kg/lit.

### Storage

6 months in unopened pack.

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

Note the Flowfast F1 Mortar Cold Grade must be cooled down to at least 0°C before being applied.

Flashpoint +10°C.

Protect from weather and moisture/contaminant ingress.

### Packaging

The product (liquid + powder) is delivered in the following packs:

Unit	Flowfast F1 Mortar Cold Grade
	Resin Filler
20 kg	2.2 kg 17.8 kg

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

Property	Approx Value	Test
Density @ 20°C	2.1 kg/l	DIN 53 479
Compressive strength	74.5 N/mm <sup>2</sup>	DIN 1164
Tensile strength in bending	27 N/mm <sup>2</sup>	DIN 1164

\* The figures given in the table above are typical values obtained in laboratory testing.

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 2-8 mm	17.8 2.2 9.5	25
Powder component Liquid component Dry quartz sand 2-8 mm Dry quartz aggregate 8-16 mm	17.8 2.2 3.6 14.2	50

*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.*