

## Flowfast Primer Diluent (blu)

### Product sheet

#### Product description

Flowfast Primer Diluent is a low viscosity milky cloudy, colourless liquid based on methyl methacrylate (MMA).

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

#### Uses

Flowfast Primer Diluent must only be used for Flowfast Standard Primer (blu) resin onto Flowcrete cementitious self level screeds (if the primer is to be laid onto a third party pumped screed, then apply a small test area and complete an adhesion test (Hydrajaw type "pull off" method). See the section "Flowfast Resins on cementitious self level screeds".

The use of Flowfast Primer Diluent does not cause any loss in cure or quality in the hardened coating.

#### Environment & Health

Flowfast Primer Diluent 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

Single component product, used at 10 - 20% by weight of the Flowfast Standard Primer (blu) resin.

#### Colour

Milky white.

#### Density

Approx. 0.94 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 25°C (out of direct sunlight).

Flashpoint 11.5°C. Protect from weather and moisture/contaminant ingress.

#### Packaging

The product is delivered in the following packs.

Unit Flowfast Primer Diluent (blu)

20 kg (18.8 litres)

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

## Flowfast Resins on cementitious self level screeds

### Application instructions for priming

The application of Flowfast systems on top of cementitious, self-levelling finishes - and especially those relying on polymer additive - must be done with extra care and attention to surface preparation and the priming.

Such surfaces by nature have the following characteristics:-

#### **Closed and dense with a rich layer of fines (laitance).**

Closed, dense surfaces make it difficult for Flowfast Standard Primer (blu) to penetrate which can lead to the primer being applied too thinly. If the resin is applied too thinly this can lead to insufficient cure. If the primer does not fully cure, this can lead to blistering of the finished system.

**Note:** Such a problem is particularly possible when application is being made outdoors.

#### **Polymer screeds can have a waxy surface.**

If there is a waxy surface this can lead to insufficient penetration in the surface. If the resin doesn't penetrate it is possible that again there is insufficient thickness of primer. Also, whilst the surface of such screeds is closed, they are quite weak. So if there isn't penetration into a weak substrate there is a possibility of delamination at the surface.

**Note:** To ensure the above issues do not happen, it is essential that the surface of the polymer modified screed is opened up sufficiently either by a blast trac machine or by grinding.

Once the laitance is removed, the finishes of polymer modified screeds are very aerated with tiny entrapped air bubbles throughout the section. **This type of surface is also problematic.**

If the Flowfast Standard Primer (blu) is applied onto an aerated surface, it is possible that the primer will not soak in because of the viscosity. If this happens, the air in the surface of the screed will not be displaced and will inhibit the curing of the primer. Again this will lead to blistering later, especially when applied outside.

#### **To displace air in the surface it is necessary to:-**

Apply two coats of Flowfast Standard Primer (blu), with the first application diluted with Flowfast Primer Diluent (blu) at 10 - 20% by weight of resin.

When the diluted Flowfast Standard Primer (blu) soaks into the concrete it is likely that the surface will bubble as the air is displaced. The primer must be applied to saturation and allowed to cure. The second application of Flowfast Standard Primer (blu) is applied undiluted in the normal manner and broadcast with quartz as detailed in the relevant system specification.

If there are any localised areas of bubbling, additional Flowfast Standard Primer (blu) must be applied. The finished primed surface must be sealed and fully cured prior to proceeding with the rest of the system build-up.

*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.*