

Cemfair FD

One component polymer modified cementitious fairing coat and cosmetic repair mortar



DESCRIPTION

Cemfair FD is a one component acrylic polymer modified powder. When mixed with water Cemfair FD produces a highly consistent, smooth, fine, trowellable mortar.

APPLICATIONS

- » For fair face concrete repair.
- » As a thin layer render.
- » As a skim coat for pin holes and minor honeycombed concrete repair.
- » As pore sealer and leveling mortar.
- » To produce a uniform surface for subsequent paint finish.

ADVANTAGES

- » Shrinkage controlled polymer modified cementitious repair mortar which reduces any potential cracking.
- » Easy to apply, single component which requires only addition of water.
- » Excellent adhesion to concrete, no independent primer or curing is required.
- » Compatible with other types of protective coatings.
- » Can be applied to feather edge thicknesses.
- » Suitable for internal and external applications.
- » Cost effective, hand applied no formwork is required.

STANDARDS

Cemfair FD complies with the requirement of EN 1504-3 as non-structural repair mortar of class R2 for repair principle 3.1.

METHOD OF USE

SUBSTRATE PREPARATION

All surfaces should be clean, sound and uncontaminated prior to the application of Cemfair FD. The prepared area should be cleaned thoroughly by brush and/or compressed air. The prepared area should be soaked with water immediately prior to the application of Cemfair FD.

PRIMING

No independent primer is required.

TECHNICAL PROPERTIES @ 25°C:

Colour:	Grey & white
Fresh wet density:	1.85 ± 0.10 g/cm ³
Maximum aggregate size:	0.1 mm
Application temperature:	5 to 35°C
Application thickness:	Up to 3 mm
Flexural strength: ASTM C348	≥ 3 MPa @ 28 days
Tensile strength: BS 6319-7	≥ 1.2 MPa @ 28 days
VOC: ASTM D2369	≤ 10 g/ltr

Property	EN 1504-3 requirement for Class R2	Measured value
Compressive strength: EN 12190	≥ 15 MPa	≥ 15 MPa
Adhesion bond: EN 1542	≥ 0.8 MPa	≥ 1.2 MPa
Thermal compatibility freeze/thaw: EN 13687-1	≥ 0.8 MPa	≥ 1.0 MPa
Chloride ion content: EN 1015-17	≤ 0.05%	0.015%
Dangers substance:	Complies with 5.4	
Reaction to fire: EN 1504-3, Clause 5.5	Class A1 (non-combustible)	





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MIXING

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used. However for small quantities, Cemfair FD can be hand mixed using proper tools and bucket.

For one full bag, 7.5 - 8.5 litre of fresh water should be added to a clean container. The powder is then added slowly to the water while mixing continuously with low speed mixer/drill (400 - 600 rpm). Mixing time should be continued for 3 minutes until uniform consistency is obtained.

To enhance the scratch resistance of Cemfair FD, an addition of Cempatch SBR or Cempatch SBR100 is advisable. 50% of the total mixing water shall be replaced by Cempatch SBR range.

PLACING AND FINISHING

Cemfair FD can be applied by steel trowel. The mixed mortar can be applied to the prepared substrates at up to 3 mm thicknesses. The applied mortar should be allowed to stiffen before trowelling to a smoother finish.

CURING

Curing is not required for Cemfair FD in normal ambient conditions. In the case of harsh weather conditions, such as high wind and temperatures, it is recommended to cure with Setseal A or wet hessian with polyethelene.

CLEANING

All tools should be cleaned immediately after finishing with water. Hardened materials can be cleaned mechanically.

PACKAGING

Cemfair FD is available in 25 kg bags.

THICKNESSES AND SIZE LIMITATIONS

Cemfair FD can be applied by single application from feather edge to 3 mm thickness. Higher thicknesses can be achieved by applying multiple layers.

YIELD

Approximately 18 litre per 25 kg bag.

STORAGE

Cemfair FD has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 35°C.

If these conditions are exceeded, DCP Technical Department should be contacted for advise.

CAUTIONS

HEALTH AND SAFETY

As a powder containing Portland cement, Cemfair FD may cause irritation to skin or eyes.

In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advise if necessary.

For further information refer to the Material Safety Data Sheet.

FIRE

Cemfair FD is nonflammable.

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04-0002-A-2022