

Cemfair PF100

Crack filling polymer modified cementitious fairing coat repair mortar



Description

Cemfair PF100 is a one component acrylic polymer modified powder. When mixed with water Cemfair PF100 produces a highly consistent, smooth, trowellable mortar.

Applications

- ▲ For crack filling.
- ▲ For fair-faced 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 from 1 mm - 10 mm thicknesses.
- ▲ Suitable for internal and external applications.
- ▲ Cost effective, hand applied no formwork is required.
- ▲ Non-toxic.

Method of Use

Substrate Preparation

All surfaces should be clean, sound and uncontaminated prior to the application of Cemfair PF100. The prepared area should be cleaned thoroughly by brush and/or compressed air. Cracks should be marked and cut into 6 mm v-grooves shape. The prepared area should be soaked with water immediately prior to the application of Cemfair PF100.

Priming

No independent primer is required.

Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle to be used.

Technical Properties:

Working life:	40 - 60 min @ 25°C 20 - 40 min @ 35°C
Setting time:	2 - 3 hr
Colour:	Grey & white
Coefficient of thermal expansion:	6.5 to 12 × 10 ⁻⁶ m/1°C
Water:Powder ratio:	0.23 - 0.27
Mixed density:	1.7 ± 0.1 g/cm ³
Recommended application temperature:	5 to 35°C
Application thickness:	1 - 10 mm
Maximum aggregate size:	0.35 mm
Compressive strength: ASTM C109/109M-02	≥ 15 MPa @ 28 days
Flexural strength: ASTM C348	≥ 2.5 MPa @ 28 days
Tensile strength: ASTM C307	≥ 1.2 MPa @ 28 days
Bond strength: ASTM C1583	1 MPa @ 10 mm thickness
VOC: ASTM D2369	< 5 g/ltr

Note: Declared results above are for the grey colour.

For 25 kg bag, 5.75 - 6.75 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.

Placing and Finishing

Cemfair PF100 can be applied by steel trowel. The mixed mortar can be applied to the prepared substrates at thicknesses between 1 - 10 mm. The applied mortar should be allowed to stiffen before trowelling to a smoother finish.

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Curing

Curing is not required for Cemfair PF100 in normal ambient conditions. In the case of harsh weather conditions, such as high wind and temperatures, it is recommended to cure with Cempatch AB or wet hessian with polyethelene.

Cleaning

All tools should be cleaned immediately after finishing with water.

Hardened materials can be cleaned mechanically.

Packaging

Cemfair PF100 is available in 25 kg bags.

Thicknesses and Size Limitations

Cemfair PF100 can be applied by single application from 1 mm - 10 mm thickness. Higher thicknesses can be achieved by applying multiple layers.

Yield

Approximately 19 litre per 25 kg bag.

Storage

Cemfair PF100 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 PF100 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 PF100 is nonflammable.

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Note:

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