

Cemfair PF

One component polymer modified shrinkage compensated cementitious fairing coat repair mortar



DESCRIPTION

Cemfair PF is a one component acrylic polymer modified powder. When mixed with water, Cemfair PF produces a highly consistent, smooth, trowellable, shrinkage compensated fairing coat mortar.

Cemfair PF is suitable for application in the range of feather edge up to 3 mm, it also can be used to infill honeycombing and voids up to 5 mm deep for vertical and overhead applications.

APPLICATIONS

- » Filling of minor cracks.
- » Fair-faced.
- » Thin layer render.
- » Skim coat for pin holes and minor honeycomb repairs
- » Concrete repair
- » Pore sealer and leveling mortar.
- » To produce a uniform surface for subsequent paint finishes and coatings.

ADVANTAGES

- » Easy to apply. Single component, requires only addition of water.
- » Shrinkage compensated fairing coat mortar.
- » Excellent adhesion to concrete, no independent primer or curing is required.
- » Compatible with most types of protective coatings.
- » Suitable for internal and external applications.
- » Cost effective, hand applied, no formwork is required.
- » Non-toxic.

STANDARDS

Cemfair PF complies with the requirements of BS EN 1504-3 Class R2 for repair principles 3.1.

METHOD OF USE

SUBSTRATE PREPARATION

All surfaces should be clean, sound and free from any plaster, oil, paint, grease, laitance, corrosion deposits prior to the application of Cemfair PF.

Roughen the surface to remove any laitance and expose the fine aggregate by light scabbling or grit-blasting, the prepared area should be cleaned thoroughly by brush and/or compressed air.

TECHNICAL PROPERTIES. W/P = 0.3:

Colour:	Grey
Fresh wet density:	1.85 ± 0.10 g/cm ³
Pot life:	60 - 90 min
Flexural strength: BS 6319-3	≥ 7 N/mm ² @ 28 days
Minimum application temperature:	5°C
Application thickness:	0 - 3 mm

Performance Characteristics	EN 1504-3 Requirement for Class R2	Measured Value
Compressive strength: BS EN 12190	≥ 15 N/mm ² @ 28 days	≥ 25 N/mm ² @ 28 days
Adhesion bond: BS EN 1542	≥ 0.8 N/mm ²	≥ 1.0 N/mm ²
Chloride ion content: BS EN 1015-17	≤ 0.05%	≤ 0.03%
Thermal compatibility: freeze-thaw cycling BS EN 13687-1	≥ 0.8 N/mm ²	≥ 0.8 N/mm ²

Cracks should be marked and cut into 5 mm v-grooves shape. The prepared area should be soaked with water immediately prior to the application of Cemfair PF.

In case of any oil and grease deposits, surfaces must be degreased using degreasing products, steam cleaning, or any other suitable method which assures the surface is free from any oil traces.

PRIMING

Areas to be repaired with Cemfair PF should be soaked with clean water until saturated surface dry immediately before applying the repair mortar. All excess water should be removed prior to applying Cemfair PF.

In case of hot climate or severe drying conditions, repeated soaking may be necessary to ensure the substrate is still saturated at the time of application.

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MIXING

To ensure proper mixing, a mechanically powered mixer or drill fitted with a suitable paddle should be used. 6.0 – 6.2 liter of clean water should be added to clean container. The 20 kg powder bag 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 PF can be applied using a steel trowel. The mixed mortar can be applied to the prepared substrates at thicknesses up to 3 mm. The applied mortar should be allowed to partly set and stiffen before troweling to a smoother finish.

Cemfair PF can be finished using a steel or plastic float. Damp sponges or plastic floats may be used to achieve a desired surface texture, but care should again be taken not to overwork the surface.

Overworking the applied Cemfair PF with the float may cause water to draw to the surface causing an unsightly finish.

Note: If a very smooth finish is required, flick a small amount of water onto the surface of the applied Cemfair PF using a paint brush prior to final troweling.

CURING

Curing is not required for Cemfair PF in normal ambient conditions. In the case of harsh weather conditions, such as high wind and temperatures, it is recommended to cure with Setseal 6 or wet hessian with polyethylene sheets.

CLEANING

All tools should be cleaned immediately after application using fresh water. Hardened materials must be cleaned mechanically.

PACKAGING

Cemfair PF is available in 20 kg bags.

THICKNESSES AND SIZE LIMITATIONS

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

YIELD

Approximately 13.9 – 14.2 liter per 20 kg bag.

STORAGE

Cemfair PF has a shelf life of 12 months from the date of manufacture if stored at temperatures between 2°C and 50°C in original unopened bags.

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

CAUTIONS

HEALTH AND SAFETY

Cemfair PF 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 advice if necessary.

For further information, refer to the Material Safety Data Sheet.

FIRE

Cemfair PF is noncombustible.

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