

Cemfair

Single component polymer-modified fairing coat containing migrating corrosion inhibitors



DESCRIPTION

Cemfair is a pre-packed, single component, acrylic modified fairing coat designed for application in a thin layer to concrete surfaces.

Cemfair may be used indoors or outdoors, on horizontal or vertical surfaces, and on new and existing concrete surfaces.

Cemfair incorporates proven Migrating Corrosion Inhibitor technology to provide high durability repairs, which minimise further corrosion to steel reinforcement. Long-term protection is provided by the migration of corrosion inhibitor molecules from the mortar into the structure.

These are adsorbed onto the reinforcement to form a protective film which inhibits both anodic and cathodic sites, effectively reducing corrosion activity to a negligible level. Adjacent concrete is also protected from incipient anode corrosion in chloride-contaminated concrete.

APPLICATIONS

- » Minor crack filling.
- » Fair-faced concrete repair.
- » 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 the addition of water.
- » Contains migrating corrosion inhibitors.
- » Minimal shrinkage.
- » Excellent adhesion to concrete, no independent primer or curing is required.
- » Compatible with most types of protective coatings.
- » Application between 1 mm - 10 mm.
- » Suitable for internal and external applications.
- » Cost effective, hand applied.
- » No formwork required.
- » Non-toxic.

STANDARDS

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

TECHNICAL PROPERTIES. W/P = 0.2:

Colour:	Grey
Fresh wet density:	1.95 ± 0.10 g/cm ³
Pot life:	60 - 90 min
Flexural strength: BS 6319-3	≥ 10 N/mm ² @ 28 days
Application thickness:	1 - 10 mm
Minimum application temperature:	5°C

Performance Characteristics	EN 1504-3 Requirement for Class R2	Measured Value
Compressive strength: BS EN 12190	≥ 15 N/mm ² @ 28 days	≥ 30 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

METHOD OF USE

SUBSTRATE PREPARATION

All surfaces should be clean, sound and uncontaminated prior to the application of Cemfair. 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.

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.

Don Construction Products Ltd.

Helions Bumpstead Road, Haverhill CB9
United Kingdom
info.uk@dcp-int.com; info@dcp-int.co.uk
www.dcp-int.com





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PRIMING

Areas to be repaired with Cemfair should be soaked with clean water before applying the repair mortar. All excess water should be removed prior to applying Cemfair.

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.

MIXING

To ensure proper mixing, a mechanically powered mixer or drill fitted with a suitable paddle should be used. 5.0 – 5.25 litres of clean water should be added to clean container. The 25 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 can be applied by steel trowel. The mixed mortar can be applied to the prepared substrates at thicknesses between 1 and 10 mm. The applied mortar should be allowed to stiffen before trowelling to a smoother finish.

CURING

Curing is not required for Cemfair 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 polythene sheeting.

CLEANING

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

PACKAGING

Cemfair is available in 25 kg bags.

THICKNESSES AND SIZE LIMITATIONS

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

YIELD

Approximately 15.3 – 15.5 litres per 25 kg bag.

STORAGE

Cemfair 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 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 is noncombustible.

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