

Flexfair FC

Crack filling polymer modified cementitious fairing coat repair mortar

Description

Flexfair FC is a high-performance, single-component, polymer-modified cementitious fairing coat. Specifically formulated for brush or trowel application, it provides a smooth, consistent finish for repairing concrete surfaces and filling minor imperfections.

- **Shrinkage Controlled:** Reduces the potential for cracking during the curing process.
- **Excellent Adhesion:** Bonds strongly to concrete substrates without the need for independent primers.
- **Versatile Use:** Suitable for both internal and external applications.
- **User-Friendly:** Requires only the addition of water and is easy to apply.
- **Compatibility:** Can be used under various protective coatings.
- **Safe:** Non-toxic and non-flammable.

Fields of application

- Filling cracks and surface blemishes.
- Fair-faced concrete repair and thin-layer rendering.
- Skim coat for pinholes and minor honeycombed concrete.
- Pore sealer and leveling mortar to create a uniform surface for subsequent coatings.

Technical data

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| 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 x 10 ⁻⁶ m/1°C |

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| 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 <i>ASTM C109/109M-02</i> | ≥ 15 MPa @ 28 days |
| Flexural strength <i>ASTM C348</i> | ≥ 2.5 MPa @ 28 days |
| Tensile strength <i>ASTM C307</i> | ≥ 1.2 MPa @ 28 days |
| Bond strength <i>ASTM C1583</i> | 1.4 MPa @ 10 mm thickness |
| VOC <i>ASTM D2369</i> | < 5 g/ltr |

Directions to use

Substrate preparation

The substrate must be clean, free of oil or grease, loose material, dust, etc. Water leaks should be plugged with CEMFIX R ultra rapid-setting, cementitious leak-plugging mortar. Any cavities on concrete surface should be filled and smoothed out with FLEXCEM GP, FLEXCEM FR60, after all loose aggregate has been removed and the surface has been well dampened.

Starter bars and spacers should be cut to a depth of about 3 cm into concrete and holes should be filled, as described above. Existing construction joints are opened longwise in a V shape to a depth of about 3 cm and are subsequently filled, as above.



Mixing

Use a mechanically powered drill or mixer (400 - 600 rpm) with a suitable paddle. For a 25 kg bag, add 5.75 - 6.75 litres of fresh water into a clean container. Slowly add the powder to the water while mixing continuously for 3 minutes until a uniform, lump-free consistency.

Application

Apply **Flexfair FC** by steel trowel or brush at thicknesses between 1 mm and 10 mm. For greater thicknesses, multiple layers may be applied.

Allow the mortar to stiffen slightly before trowelling to a smooth finish.

Curing

Generally, not required in normal conditions. In harsh weather (high wind or heat), cure with a suitable curing compound or wet hessian with polyethylene.

Coverage

Yield is Approximately 19 litres per 25 kg bag and it will cover approximately 19m² at 1mm thickness.

Packaging

25kg HDPE Bags

Shelf life

18 months from production date if stored in original, unopened packaging, at temperatures between +5°C and +35°C. Protect from direct sunlight and frost

Health & safety

Flexfair FC contains cement powders which, when mixed with water, release alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning with soap and water. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting, in both cases seek medical attention. The product is non-flammable.

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

Notes

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