

# MONOLEVEL 250F

## Class R1: Fine Grade Fairing Coat for Existing Paint Finishes

### USES

Fine grade polymer modified mortar for filling blow holes, cracks, surface defects and uneven surfaces in sound existing paint finishes as well as concrete and mosaics prior to application of Flexcrete anti-carbonation coatings.

### ADVANTAGES

- Incorporates the latest proven cement chemistry and styrene acrylic copolymer technology.
- Pre-packaged material requiring mixing with clean water on-site to give an adhesive mortar which can be rapidly applied in vertical and horizontal situations by bag-rubbing, trowel or spatula.
- Non-toxic when cured.
- Economic mortar requiring no substrate or inter-layer priming. Part bags can be mixed. Suitable for feather edging.
- Easily over-coated after just 24 hours with specialist membranes in the Flexcrete range to provide further protection and aesthetic quality.

### PRODUCT DESCRIPTION

**MONOLEVEL 250F** is a single component, polymer modified cementitious mortar for the filling of blow holes, cracks, mapping defects, blemishes and levelling out uneven surfaces in existing paint finishes as well as concrete and mosaic substrates. The incorporation of a polymer promotes adhesion to existing painted surfaces, making it ideal for application to provide a fair faced finish prior to application of subsequent protective coatings and paint finishes. Once cured, the product should be overcoated with specialist membranes in the Flexcrete range to provide further protection and aesthetic quality.



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0086-CPD-530942

EN1504-3: Concrete repair product for non-structural repair

PCC mortar (based on hydraulic cement polymer modified)

Compressive Strength: Class R1 ≥ 10MPa

Adhesive Bond: Class R4 ≥ 2.0MPa

Chloride Ion Content: ≤ 0.05%

Dangerous Substances: Complies with 5.4

Reaction to Fire: Class F

### TECHNICAL DATA

Mixed Colour:	White
Mixed Density:	1850-1950kg/m <sup>3</sup>
Max. Application thickness:	4mm in a single layer
Min Application Temperature:	5°C
Max Application Temperature:	35°C
Working Life (Approx.):	1 hour at 20°C

### MECHANICAL PROPERTIES (TYPICAL)

Compressive Strength: (mixed at 6litres/25kg)

1 day 4-10 MPa

7 days 20-30 MPa

28 days 25-35 MPa

Flexural Strength:

28 days 6.5 MPa

Thermal coefficient of Expansion: BS EN 1770  
1.57 X 10<sup>-5</sup>

Adhesion (BS EN 1542):

(Weathered **MONODEX SMOOTH**):

7 days 1.8 MPa

Failure within **MONOLEVEL 250F**

Concrete:

28 days 3.1 MPa

### APPLICATION DATA

**Application Guide available on request.**

## PREPARATION

The areas to be treated must be free from all unsound material, i.e. dust, flaking paint, oil, grease, organic growth. Existing paint finishes should be cleaned thoroughly using a power washer and left to dry before continuing. Hard glossy finishes should be roughened using mechanical methods to provide a key and promote adhesion. Visible areas of growth and associated underlying loose paint or substrate must be removed by mechanical means and the substrate treated with **BIODEX WASH**.

## MIXING

**MONOLEVEL 250F** should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable. For normal applications add 5-6 litres of clean water per 25kg bag which equates to a volume mix ratio of 3.5-4.5 volumes of powder: 1 volume of water for part bags dependent on consistency.

Normal mixing time is approximately 2 minutes. Mix so as to entrain as little air as possible. Use without delay.

## PLACING

Apply by wooden or sponge faced float or "bag rubbing" techniques using a circular motion to completely fill all blow holes, cracks and other defects. As a final finishing process, before the material has fully hardened, excess material should be scraped from the surface using a steel float and any residue removed with a dry sponge.

Large surface defects and voids must first be pre-filled with **MONOLEVEL 250F** mixed to a stiffer consistency applied by palette knife or steel float. This should be allowed stabilise before application of a fine skim coat at the wetter consistency to give a fair faced finish. Allow to cure for a minimum of 24 hours before overcoating.

## CLEANING

All tools should be cleaned with water immediately after use.

## SHELF LIFE

12 months in dry, frost free conditions with unopened bags at 20°C.

## PACKAGING AND COVERAGE

Pack Size: 25kg  
Yield: 16.2 litres per 25kg pack

## SAFETY DATA

**Safety Data Sheet available on request.**



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The information herein is correct to the best of our knowledge, but it does not necessarily refer to the particular requirements of the customer. If the customer has any particular requirements it should make them known in writing to Flexcrete Technologies Limited, and obtain further advice accordingly.

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EMS 597350  
OHS 597351

Quality  
Environmental  
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