



MONOLEVEL RM

Fair-Faced Render

USES

For the rendering and profiling of in-situ and precast concrete in vertical, horizontal and overhead surfaces. Can also be applied by wet spray techniques.

ADVANTAGES

- Pre-packaged material requiring mixing with clean water to give an easily trowellable mortar, which achieves a wide range application thicknesses from a single product.
- Physical properties of cured materials similar to base concrete.
- Can be applied using wet spray techniques on larger areas.
- High bond strength exceeds tensile strength of concrete, thus ensuring monolithic performance.
- Fibre reinforced to give improved tensile and impact strength. Excellent low sag properties.
- Dense matrix provides excellent protection from the ingress of acid gases, moisture and chlorides.
- Economic mortar generally requiring no substrate or inter-layer priming. Part bags can be mixed.
- Easily overcoated with Flexcrete's specialist membranes to provide further protection and aesthetic quality.

COMPLIANCE

Cements used are quality assured, complying with EN 197.

PRODUCT DESCRIPTION

MONOLEVEL RM is a single component, thixotropic, fibre reinforced, polymer modified, cementitious mortar which cures rapidly to produce a high performance, waterproof, fair-faced render with enhanced polymeric properties. The product is supplied as a single component system ready for on-site mixing and use, requiring only the addition of clean water.

APPLICATION DATA

Application Guide available on request.

PREPARATION

The areas to be repaired must be free from all unsound material, i.e. dust, oil, grease, corrosion by-products and organic growth. All loose materials and surface laitance must be removed, preferably using wet grit or water blasting techniques or equivalent approved methods. The strength of the concrete sub-base should be a minimum of 20 MPa.

The prepared substrate should be thoroughly soaked with clean water until uniformly saturated without any standing water.

PRIMING

The pre-dampened concrete surface should, if highly porous, be primed with **BONDING BRIDGE 842**. Two coats of **STEEL REINFORCEMENT PROTECTOR 841** should be applied to any exposed steel by brush. For further information, please refer to relevant data sheets.

TECHNICAL DATA

Mixed Colour:	Concrete Grey
Mixed Density:	1900 kg/m ³ at 0.10 water : powder ratio
Min Application Thickness:	5mm
Max Application Thickness:	50mm per layer
Min Application Temperature:	5°C
Max Application Temperature:	35°C
Working Life (Approx):	30 minutes at 35°C

MECHANICAL CHARACTERISTICS (TYPICAL)

Compressive Strength:	Tested at 20°C
1 day	8-10 MPa
7 days	20-25 MPa
28 days	30-35 MPa
Flexural Strength:	BS 4551 8-10 MPa
Waterproofing:	DIN1048 Resists 7 bar pressure

MIXING

MONOLEVEL RM should be mechanically mixed using a forced action pan mixer or in a clean drum using a slow speed drill and paddle. A normal mixer is NOT suitable.

For normal application use from 2.3-2.7 litres of clean water per 25kg bag, depending on desired consistency. Normal mixing time depends upon the type of mixer used, 2-3 minutes is average. Use without delay.

PLACING

MONOLEVEL RM should be applied in layers not exceeding 50mm thickness using a rendering or spray technique to remove entrapped air. If necessary, support with shuttering to allow for compaction if working to reveals, etc. Care must be taken to ensure that an initial 5-10mm thickness of mortar is well placed and adhered before building up to larger depths.

For repairs which require multi-layer applications, it is important to ensure that previous layers are well keyed and stable, but not fully set, prior to the application of subsequent layers. Final profiling of a high quality is easily achieved with a steel float after allowing the surface to stabilise.

CURING

Normal concreting procedures should be strictly adhered to. It is important that the surface of the mortar is protected from strong sunlight and drying winds with **FLEXCRETE CURING MEMBRANE**, polythene sheeting, damp hessian or similar. Under these conditions, curing must commence within 10 minutes of placing **MONOLEVEL RM**.

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: 14.5 litres per 25kg pack
Coverage: A 25kg pack covers 1.45m² at 10mm thickness.

SAFETY DATA

Safety Data Sheet available on request.



Flexcrete Technologies Limited
Tomlinson Road
Leyland
Lancashire
PR25 2DY
United Kingdom
Tel: +44 (0) 845 260 7005
Fax: +44 (0) 845 260 7006
Email: info@flexcrete.com
Web: www.flexcrete.com



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.

FM 41091 Quality
EMS 597350 Environmental
OHS 597351 Health & Safety

v0115