

# MONOLEVEL RM

## Fibre Reinforced, Waterproof, One-Coat Render

### USES

**MONOLEVEL RM** is a fibre reinforced one coat render that can be spray or trowel applied to concrete or masonry to give a fair-faced, waterproof finish suitable for both basements and external applications.

### ADVANTAGES

- Pre-bagged, single component product which simply requires mixing with clean water to give a thixotropic mortar that can be easily and quickly applied by trowel or spray techniques.
- Cost-effective one-coat application with no need for primers.
- Polymer modified to give excellent adhesion and long term durability in exposed external applications.
- Can be applied at thicknesses from 5-50mm in a single coat which greatly reduces application costs.
- Highly waterproof resisting 7 bar hydrostatic pressure on both the positive and negative side when applied at 10mm thickness.
- Conforms to the requirements of BS 8102:2009, the Code of Practice for Protection of Structures Against Water from the Ground, providing the optimum 'Grade 3' completely dry environment.
- Fibre reinforced to provide excellent tensile strength, impact strength and the ability to resist cracking. Dense matrix provides excellent protection from the ingress of acid gases, moisture and chlorides.
- Can be easily overcoated with Flexcrete's specialist membranes to provide further protection and aesthetic appearance.

### COMPLIANCE

CE Marked in accordance with EN988-1.

### PRODUCT DESCRIPTION

**MONOLEVEL RM** is a pre-bagged, 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. It can be quickly and easily applied as a one-coat render on vertical, horizontal and overhead surfaces by trowel or spray techniques.



**Flexcrete Technologies Ltd**

**Tomlinson Road, Leyland PR25  
2DY England**

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EN988-1: Rendering and Plastering Mortar  
One Coat Mortar for External and Internal use on walls,  
soffits and columns (OC)

Reaction to Fire:	Euroclass A2-s1,d0
Water Absorption:	W2 $\leq 0.2 \text{ kg.m}^{-2}.\text{h}^{-0.5}$
Water Permeability on relevant substrates after weathering:	$\leq 1 \text{ ml/cm}^2$ after 48 hours
Water Permeability Coefficient( $\mu$ ):	$\leq 1/\leq 10$
Adhesion after Weathering Cycles:	
Strong Substrate:	$\geq 2.0 \text{ MPa}$ , FP B/C
Weak Substrate:	$\geq 0.4 \text{ MPa}$ , FP C
Durability (against freeze/thaw):	The product is considered suitable for external use based on results quoted above.
Dangerous Substances:	None.

### TECHNICAL DATA

Mixed Colour:	Concrete Grey
Mixed Density:	1900 kg/m <sup>3</sup> 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

## 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.

## 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 1.45m<sup>2</sup> 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](mailto:info@flexcrete.com)  
Web: [www.flexcrete.com](http://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.

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