

# Product Data Sheet

Version MF-0318.02

**MATRICK**   
**CEMENT**  
Specialist Surface Materials

## M-Flex

### Product Description:

*M-Flex* is a two component, trowel applied **taking** system formulated from a carefully selected, pre-measured blend of cement, aggregates, synthetic resins, editors and inorganic dyes. Packaged and sealed in watertight containers of 20Kgs net weight for the powder and 10L tubs for the liquid additive, *M-Flex* can be mixed in its entirety or proportionate quantities can be decanted and smaller amounts mixed.

Designed to add flexural strength to existing surfaces and for bridging cracks and waterproofing, a precision weighed cement based powder creates the first part of the two component system. A tub containing 10L of anti-foaming acrylic resin completes the two components. Pouring the powder into the acrylic resin and blending creates the lump free mixture to be trowelled over existing surfaces creating a waterproof, flexible sub base.

### Material Features:

- ❖ 60 minute open time.
- ❖ High mechanical strength.
- ❖ High abrasion resistance.
- ❖ Proofing to grease, water and oils.
- ❖ Mineral fillers.
- ❖ Organic resins.
- ❖ High tensile strength

### Technical Data - Part A:

<b>Product type:</b>	Solid powder	<b>Colour appearance:</b>	White
<b>Solids content:</b>	100%	<b>Density:</b>	1,18 +/- 0.05g/cm <sup>3</sup>
<b>User time:</b>	60 minutes once mixed	<b>Chloride free:</b>	Yes
<b>PH (100% distilled water):</b>	PH 12.5	<b>Packaging appearance:</b>	20Kg Bucket

#### Composition:

- Cement 42.5
- Mineral loads
- Correctors
- Pigments

<b>Adherence A+B:</b>	14 dN/cm <sup>2</sup>	<b>Mix ratio:</b>	2:1
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### Technical Data - Part B:

<b>Presentation:</b>	Liquid	<b>PH (100% distilled water):</b>	8 +/- 1
<b>Colour:</b>	White	<b>Chloride Free:</b>	Yes
<b>Apparent Density:</b>	1+/- 0,1%	<b>Packaging:</b>	10L sealed container
<b>Contents in solids:</b>	35%	<b>Consumption (A+B):</b>	Approx. 40m <sup>2</sup> per pack

## M-Flex Instructions:

### 1. Surface Preparation:

Ensure the surface is dry and contaminant free. Abrading the surface is recommended to achieve a mechanical bond. We recommend using our *SM1 Surface Sealer* before application of the *M-Flex* mortar. *M-Flex* should be used in conjunction with *Matrick Mesh* embedded between the substrate and *M-Flex* layers.

### 2. Mixing Preparation:

In a clean mixing vessel containing the proportionate quantity of acrylic resin, slowly add the *M-Flex* powder. Mix the material using a mechanical stirrer on a slow speed (300rpm-500rpm) until a homogenous state is achieved. Ensure a lump free mixture is achieved. Let the mixture stand for 10 minutes then remix for an additional two minutes.

### 3. Application:

Apply two coats of *M-Flex*. More layers may be required where the surface is not sufficiently covered. Pour small amounts of the mixed material directly onto the floor. Spread the material using a flexible steel trowel at the correct thickness. Once the entire surface is dry, remove any blemishes by means of mechanical sanding. Recommended sanding discs of 150grit-200grit leave a smooth blemish free surface ready to apply the next *M-Flex* layer.

### Special Precautions:

- ❖ This product contains cement. The use of neoprene gloves and safety goggles must be adhered to during mixing and all application processes.
- ❖ Keep out of reach of children.
- ❖ Do not apply below 5°C or above 30°C.
- ❖ Empty containers must be disposed of in accordance with current legislations.
- ❖ Never stand vessels of mixed products directly on to the surface where the material is to be applied.
- ❖ Keep moisture away from the surface below. *M-Flex* must be applied to a dry surface.
- ❖ If in the event of application there is a water mark or staining on the floor, DO NOT start to apply the product. Allow the stain to dry out fully and then continue to apply the *M-Flex* layers.

### Cleaning of Tools:

- ❖ All tools can be cleaned with pH neutral water.
- ❖ Remove any excess *M-Flex* mortar into a disposable bag and discard in accordance with legislation.
- ❖ Brush all equipment with clean water and a soft brush.
- ❖ Ensure any electrical equipment is disconnected from the power source prior to cleaning.

### Use:

Suitable for waterproofing of terraces, swimming pools, basement floors and bridging cracks in substrates.

### Protective Layers:

- ❖ MicroCement products
- ❖ PM1 Pre Sealer

### Storage Conditions:

Store in dry conditions for no longer than 12 months.

Solid Part A - *M-Flex* powder  
Buckets 20Kg

Liquid Part B - *Acrylic Resin*  
Container 10L

<b>A : B</b> <b>20 : 10</b> Mixing Ratio	 Mix Time Min 3 mins
 30° C 5° C Working Temp.	 Frost Free
 Wear Goggles	 Wear Gloves
 Application	 Clean in Water
 Pot Life 60 mins	 Shelf Life

Matrick Cement LTD reserves the right to change any of the specified instructions on this data sheet without prior notice if necessary.