

# Product Data Sheet

Version RM1-0318.02

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

## RM1 Repair Mortar

### Product Description:

*MicroCement RM1 Repair Mortar* is a single component trowel applied mortar.

*RM1 Repair Mortar* is pigmented in white or grey and should be used to repair all defective substrates. *RM1 Repair Mortar* can be used to bind together different types of substrates to create a uniform finish in order to proceed with your chosen flooring or walling system. *Matrick Mesh* may be incorporated between layers for added strength.

Designed to repair any areas of flooring unsuitable for our systems, this is a repairing layer to our complete *MicroCement* system. We recommend using a complete system including: *MicroCement Base / MicroCement Medium / Matrick Cement PM1 Pre Sealer* and *Matrick Cement UM1 PU Sealer* to provide a decorative coating system.

### Material Features:

- ❖ High compressive strength.
- ❖ High mechanical strength.
- ❖ High abrasion resistance.
- ❖ Thicker build of up to 5mm.
- ❖ Mineral fillers.
- ❖ Organic resins.
- ❖ High tensile strength (when used with Matrick Mesh).

### Technical Data:

<b>Product type:</b>	Solid powder	<b>Colour appearance:</b>	White / Grey
<b>Solids content:</b>	100%	<b>Density @ 20°C:</b>	1,0 Kg/dm <sup>3</sup> +/- 0,1
<b>User time:</b>	60 minutes once mixed	<b>Chloride free:</b>	N/A
<b>PH (50% distilled water):</b>	PH 12.5	<b>Packaging appearance:</b>	25Kg Bucket
<b>Paste material with 24% water:</b>			
• Density	1,60gm/c.c.		
<b>Set materials (Test at 28 days):</b>			
• Density @ 20°C	1,65gms/c.c.		
• Water flow	Nothing (minimum 1cm layer and water spray at 2.5Kg/ cm <sup>2</sup> , 12 hours)		
<b>Adherence A+B:</b>	14 dN/cm <sup>2</sup>	<b>Mix ratio:</b>	2

# RM1 Repair Mortar 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. Between **MicroCement Base** layers, *PM1 Pre Sealer* can be used to slow down the drying (in warmer conditions).

## 2. Mixing Preparation:

In a clean mixing vessel containing the proportionate quantity of water and pigment, slowly add the **MicroCement Base** 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 one/two coats of *RM1 Repair Mortar* depending on the desired aesthetic finish.

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 **MicroCement** 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. *MicroCement* 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 apply a layer of *Matrick Cement PM1 Pre Sealer*. This will contain the mark and reduce the chances of the stain appearing in further layers.

## Cleaning of Tools:

- ❖ All tools can be cleaned with pH neutral water.
- ❖ Remove any excess *MicroCement* 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 high trafficked areas of floors, walls, ceilings and worktops.

## Protective Layers:

- ❖ PM1 Pre Sealer
- ❖ UM1 PU Sealer

## Storage Conditions:

Store in dry conditions for no longer than 12 months.

Solid Part A - *RM1 Repair Mortar*  
Buckets 25Kg

<b>A : B</b> <b>20 : 10</b> Mixing Ratio	 Mix Time 12 mins
 30° C 5° C Working Temp.	 Frost Free
 Wear Goggles	 Wear Gloves
 Application	 Clean in Water
 Pot Life 60 mins	 12 M Shelf Life

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