

Product Data Sheet

Version HD-0318.02

MATRICK 
CEMENT
Specialist Surface Materials

MicroCement HD Base

Product Description:

MicroCement HD Base is a single component, trowel applied coating 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 24Kgs net weight, *MicroCement HD Base* powder can be mixed in its entirety or proportionate quantities can be decanted and smaller amounts mixed.

Designed to replicate polished concrete and waxed floors, this product is a stronger base component. We recommend using a complete system including *M-Flex / Medium Cements / PM1 Pre Sealer* and *UM1 PU Sealer* to provide a decorative coating system. *MicroCement HD Base* can be used as a finished option (must be sealed with *PM1 Pre Sealer* and *UM1 PU Sealer*) leaving a textured finish if desired.

Material Features:

- ❖ Ultra Violet stable.
- ❖ High mechanical strength.
- ❖ High abrasion resistance.
- ❖ Proofing to grease, water and oils.
- ❖ Mineral fillers.
- ❖ Organic resins.
- ❖ Highest tensile strength.

Technical Data:

Product type:	MicroCement	Colour appearance:	White powder
Bulk density:			
• Powdered	1,300kg/m ³		
• Paste	2.050kg/m ³		
• Hardened	2.000kg/m ³		
User time:	60 minutes once mixed	Max aggregate size:	600 microns
Mechanical strength:	(EN 1015-11)	Compression 28 days:	45N/mm ²
Flexion @ 28 days:	8N/mm ²	Consumption:	Approx. 1Kg per m ²
Adhesion to concrete @ 28 days:	>2N/mm ²		
Application thickness:	1mm per layer	Reaction to fire:	(EN 13501-1): A1

MicroCement HD Base 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 HD 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 HD 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 *MicroCement HD Base* 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 HD Base* 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 HD Base* 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 heavily trafficked or commercial floor areas.

Protective Layers:

- ❖ PM1 Pre Sealer
- ❖ UM1 PU Sealer

Storage Conditions:

Store in dry conditions for no longer than 12 months.

Solid Part A - *MicroCement HD Base*

Buckets 24Kg

P : W 100 : 27 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	 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.