



CONMARBLE
NATURAL FINISHES



TECHNICAL DATA SHEET

CEMHER MICRODUR PLUS

Microcement

A CONMARBLE NATURAL FINISHES SYSTEM · MICROCEMENT

MANUFACTURED BY

CEMHER

Cemher · Spain

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MICRODUR PLUS - THREE-COMPONENT MICROCEMENT

Microdur® Plus is a three-component waterproof in mass microcement. With a performance unmatched until now, it is a natural-looking microcement whose hardness is far superior to its fraternal line Microdur®. In addition, its resistance to compression and traction is incomparable. Thanks to this, sealants do not soften the product and the microcement is not affected by solvents or chemical compounds.

Thanks to its waterproofing properties, it is not necessary to apply poresealer before the sealant to protect it.

It does not crack or fissure. It does not stain. It has a high adhesion to any surface. It is specially designed to be applied in high traffic and humid areas.

USES

Microdur® Plus is suitable for the realisation of:

- Highly decorative continuous floor coverings, walls and ceilings in interiors and exteriors.
- Coating of underfloor heating, fireplaces, furniture, shelves, kitchen worktops, counters, etc.
- Not suitable for swimming pools or continuously immersed surfaces.
- Coating of old ceramic tile and other tile coverings.
- Applicable in interior and exterior rooms, as well as in kitchens, bathrooms and terraces.
- Coating of indoor or outdoor pavements on cementitious substrates.
- Decorative coating for shops, offices, lobbies, exhibition areas, homes, etc.

CHARACTERISTICS / BENEFITS

- Decorative continuous flooring with multiple chromatic options.
- Applicable in thicknesses of 0.3 and 5.5 mm.
- Excellent adhesion on multiple mineral surfaces.
- High resistance to chemical agents: ammonia, water, oil, soft drinks, coffee, etc. Sensitive to vinegar and other organic acids.
- High abrasion resistance.
- More impermeable than conventional microcement systems without sealer.
- No cracking.
- High resistance to UV radiation.
- Breathable coating.

METHOD OF USE AND APPLICATION**A. Surface preparation:**

Before applying Microdur® Plus microcement, it is necessary to prepare the surface according to the conditions of the substrate. Some applications require specific solutions: Compactec® mortar consolidator, vapor barriers or Vapoepox® rising damp barriers.

Do not use bonding bridges, apply directly. In any case, follow the recommendations of our technicians. The surface must be clean and free of grease, the base must be consolidated and in good condition.

B. Mix:

Microdur® Plus is mixed with two resins and the chosen toner. In order to guarantee the properties of the coating it is essential to respect the ratio between the microcement and the resins:

- 10kg de Microdur® Regular + Microdur Plus (Comp "A" 3,6Kg + Comp "B" 450g).
- 20kg de Microdur® Base + Microdur Plus (Comp "A" 4,8Kg + Comp "B" 600g).

C. Mortar preparation:

The mortar should be prepared as follows:

1. Pour Comp B into the Comp A bucket and also add the corresponding pigment in Comp A. Shake the jerrycan of Comp A until a homogeneous liquid color is obtained.
2. Pour the microcement powder gradually while mixing the liquid with a mechanical mixer at low revolutions.
3. Mix for at least 2 minutes until a homogeneous, lump-free mixture is obtained. *Always use round buckets for mixing.

D. Consumption:

The performance on prepared surfaces with Microdur® Plus, is as follows:

Microdur® Regular	1,7m²/kg
Microdur® Base	1m²/kg

The better the levelling and preparation of the surface to be coated, better performance and lower cost in material and application time. It is advisable to choose the appropriate method for each application.

E. Preparation layers:

Once the substrate has been prepared and is in perfect condition, apply the first layer of Microdur® Plus Base using a metal trowel. Then place the fibreglass mesh on top of the fresh Microdur® Plus Base and press with the metal trowel to encapsulate the microcement with the fibreglass mesh. Before applying the second coat, allow the previous coat to dry and sand gently with a rotary orbital sander with 40-grit sandpaper, in order to eliminate imperfections.

F. Finishing coats:

Apply two coats of Microdur® Plus Regular or one coat of Microdur® Plus Base depending on the desired aesthetic finish and spread it out with the help of a metal trowel, using one of the following two techniques.

“Wet on wet”

Microdur® Plus can be worked using the “ wet-on-wet ” technique, applying the next coat as soon as the first coat no longer has a “tack” (when the microcement that has just been applied stops sticking to your fingers when you touch it). This first coat of Microdur® Plus does not require sanding.

If any burrs or lumps remain, it shall be removed with the support trowel, removing any protruding material. Apply the next layer working on extruded polystyrene boards. Once the material is dry, sand it gently with a roto-orbital sander or 220-grit sandpaper to remove imperfections (as soon as it has changed color and is lighter).

“ Wet on dry “.

Before applying a new coat, let the previous one dry (about 3 hours) and sand gently with a roto-orbital sander or 220 grit sandpaper to remove imperfections.

G. Sealing:

Cemher® microcements should be sealed after hardening within 24-48 hours. The coating can be sealed when its moisture content is less than 5%, which is measured with instruments designed for this purpose. Microdur® Plus can be sealed directly with water-based varnish Aquamax® or solvent-based varnish Maxipur®. We recommend using Maxipur® 100% for maximum performance. The application advice in the technical data sheets should be carefully followed.

PRODUCT POT-LIFE

The pot-life of the product is 2 hours at about 20°C. Partial mixtures should be carried out according to the installer's experience.

TOOL CLEANING

Tools should be washed with water immediately after use. Once the material has hardened, it can only be removed by mechanical means.

GENERAL TECHNICAL DATA

Type:	Three-component microcement
Appearance:	White powder - Resin
Minimum application temperature:	+ 10 °C
Workability (at 20 °C):	Approx. 120 Minutes
Furniture with casters:	Yes
Suitable for hot water / electric underfloor heating:	Yes / Yes
pH-range (after 1 day):	12 pH

MICRODUR TECHNICAL SPECIFICATIONS

		STANDARD	RESULT
	Determination of emissions into indoor air UNE EN 16516:2018	UNI EN ISO 16000-6:2019	A+
	Thermal conductivity	UNI EN 12664:2002	$\lambda=0,46$ (W/mK)
	Reaction to fire classification 1* UNE EN 13501-1:2019	UNI EN 13501-1:2019	Class A1 Class A1 _{FL}
	Determination of adhesion strength UNE EN 13813:2014	UNI EN 13892-8:2003	>6 N\mm ² Class B 6,0
	Impact resistance UNE EN 13813:2014	UNI EN 6272-2:2012	>25,5 Nm IR 24
	Determination of the surface hardness 1* UNE EN 13813:2014	UNI EN 13892-6:2003	>200 N/mm ² (SH 200)
	Determination of compressive strength UNE EN 13813:2014	UNI EN 13892-2:2005	>50 N\mm ² Class C50
	Determination of abrasion resistance BCA 1* UNE EN 13813:2014	UNI EN 13892-4:2003	Class: AR 0,5 (max 50 μ m)
	Depth of water penetration under pressure 1* UNE EN 14891:2017	UNI EN 12390-8:2020	5 bar - 3 days Direct pressure: No penetration Indirect pressure: No humidity

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Determination of slip resistance
Technical building code

UNE EN 12633:2003

Value (USRV): 41
Class 2



Permeability to liquid water
UNE EN 1504:2005

UNE EN ISO 1062-3:2008

<0.1 Kg / (m²*h^{0.5})

Resistance to severe chemical attack
UNE EN 1504:2005

UNI EN 13529:2005

Class: II
No alteration and no reduction
of hardness.



**Determination of the transmission properties
of water vapors**
UNE EN 1504:2005

UNE EN ISO 7783-2:2012

Class: 1 Sd<5 m
For applications as described in
the data sheet

1* = Without sealer

SPECIAL PRECAUTIONS

This product contains cement.

- Avoid contact with eyes and skin and avoid inhalation of dust.
- Use rubber gloves and protective glasses.
- Do not apply the product at room temperature lower than 10°C and not higher than 30°C.

Low temperatures extend and high temperatures significantly reduce the pot life and drying time of the product. Empty packaging should be disposed of in accordance with current legislation. Keep out of contact with children.

STORAGE CONDITIONS

The product should be stored in its original closed container and protected from the weather at temperatures between 10°C and 30°C, in a dry and well ventilated place, away from heat sources and direct sunlight. The shelf life is 24 months from the date of manufacture, if stored properly.

PACKAGING FORMAT

It is presented in packages of:

- Microdur® Plus Regular – Comp “A” 3,6Kg.
- Microdur® Plus Regular – Comp “B” 450g.
- Microdur® Regular – Comp “C” 10Kg.
- Microdur® Plus Base – Comp “A” 4,8Kg.
- Microdur® Plus Base – Comp “B” 600g.
- Microdur® Base – Comp “C” 20Kg.



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