



CONMARBLE
NATURAL FINISHES



TECHNICAL DATA SHEET

CEMHER MICROROCK

Polymeric Microcement

A CONMARBLE NATURAL FINISHES SYSTEM · MICROCEMENT

MANUFACTURED BY

CEMHER

Cemher · Spain

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MICRORÖCK - TWO COMPONENT MICROCEMENT

Microröck® is a two-component, waterproof microcement. Its performance is unparalleled until now, as it is a microcement whose hardness is superior to that of polished cement with a mineral appearance. In addition, its compressive and tensile strength is unmatched.

As a result, sealants do not soften the product and the microcement is not affected by solvents or chemical compounds.

Thanks to its impermeability, it is not necessary to apply several coats of sealant to protect it.

It does not break or crack. It does not stain. It has a high adhesion to any support. It is specially designed to be applied in high-traffic areas.

USES

High-performance microcement designed to be used as a continuous coating for interior floors and walls. It can not be placed on underfloor heating. Especially recommended in areas with high traffic such as garages and warehouses.

Also, it can be used in galleries, stores, waiting rooms, corridors and offices. In general, in those areas of pedestrian traffic that require a natural finish with good resistance.

Available in four grain sizes: Thick Base, Base, Medium and Fine. All four grain sizes are suitable for floors and walls.

CHARACTERISTICS / BENEFITS

- As a continuous seamless coating.
- Excellent workability.
- High adhesion to mineral surfaces.
- Very good resistance to chemical agents: ammonia, water, oil, soft drinks, coffee, etc. Sensitive to vinegar and other organic acids.
- Very good resistance to abrasion.
- More waterproof than conventional microcement systems.
- Recommended for use in interiors where high mechanical performance and a good decorative finish are required.
- The four grain sizes are suitable for floors and walls.

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

Before applying Microröck® microcement, the support must be properly prepared.

Quality of the support: Concrete supports must be compact with sufficient compressive strength (min. 25 N/mm²) and a minimum pull-out resistance of 1.5 N/mm², if the support does not have adequate strength, it could detach. For ceramic supports it would be necessary to rough it with a machine, to guarantee optimal adhesion.

It must be dry, clean and free of dust, grease or dirt. If it has been previously varnished or painted, the previous coating must be removed, especially if it is damaged or deteriorated. It can be done by sanding or stripping, making sure to leave the surface in good condition. If repair, consolidation or sealing of joints is required, proceed before placing the primer. In case of humidity, use Vapoeпок®

B. Mix:

Homogenize Microröck® component A with mechanical agitation at low speed. Add component B and mix. The proportions of the mixture are the following:

- For component A Microröck® of 10Kg, add 1L of component B Microröck®.

Pigment the resulting mixture with the toner chosen from the color chart. It is also possible to pigment component A first and then mix it with component B.

C. Consumption:

The performance on a surface prepared with Microröck® is the following:

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

Microröck® Fine	(1 coat) – 0,45 kg/m ²	(2 coat) – 0,9 kg/m ²
Microröck® Medium	(1 coat) – 0,55 kg/m ²	(2 coat) – 1,1 kg/m ²
Microröck® Base	(1 coat) – 0,9 kg/m ²	(2 coat) – 1,8 kg/m ²
Microröck® Thick Base	(1 coat) – 1,1 kg/m ²	(2 coat) – 2 kg/m ²

D. 1st Step / Preparation coats:

Once the surface has been prepared and is in perfect condition, apply two coats of Microröck® Thick Base or Microröck® Base with a metal trowel of a maximum of 1 mm each, allowing each coat to dry. The drying time of each coat will depend on the environmental conditions at the time of application. At temperatures between 15-23°C, the drying time between coats can vary from 8-12h. At temperatures between 23-35°C, drying can range from 4-6h. The environmental humidity will also be a determining factor since at high humidity (>70% w/w) the drying will be slower. It is necessary to sand each one of the layers with sandpaper grit 40, in order to eliminate imperfections

E. 2nd Step / Finish coats:

Apply two coats of Microröck® Fine, Microröck® Medium or Base depending on the aesthetic finish you want and extend it with the help of a steel trowel, these layers should be very thin, maximum of 0.5mm. Use the technique:

"Wet on dry".

Before applying a new coat, let the previous one dry and perform a soft sanding with a roto-orbital sander using 220 grit sandpaper. Over the finish coat and before sealing, it is recommended to sand with 400 grit sandpaper.

F. 3rd Step / Sealing:

Before sealing Microröck® it is recommended to let it dry for at least 48h. Apply Aquamax® (water-based) or Maxipur® (solvent-based) polyurethane varnish using a roller in 2 coats, allowing 3h between coats to dry. Leave it to act for at least one week to achieve maximum performance.

MAINTENANCE

Allow the Aquamax® or Maxipur® sealer to dry for at least one week before wetting.

- Polyurethanes reach their full chemical properties after two weeks.
- Do not use detergents or coat before two weeks.

Clean with a damp cloth and our Ecoclean detergent or neutral soap to prolong the life of the sealant. Do not use aggressive cleaning products such as bleach, acetone or spirits of salt (hydrochloric acid).

PRODUCT POT-LIFE

The pot life of the mixture (component A + component B) is 60 minutes at about 20°C.

TOOL CLEANING

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

GENERAL TECHNICAL DATA

Type:	Two-component polymeric microcement
Appearance:	Comp. A: Paste / Comp. B: Liquid
Minimum temperature of application:	+ 12 °C
Workability (at 20°C):	Approx. 60 minutes
Wheeled furniture:	Yes
Suitable for hot water/electric underfloor heating:	No
pH-range (After 1 day):	12 pH

MICRORÖCK 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	$\lambda=0,82$ (W/mK)
	Reaction to fire classification 1* UNE EN 13501-1:2019	UNI EN 13501-1:2019	Class B
	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	>80 N\mm ² Class C80
	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 bars-3 days Direct pressure: No penetration Indirect pressure: No humidity

EN 3/4



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

Clase: II
No alteration and no reduction in 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 datasheet

1* = Sin sellador

SPECIAL PRECAUTIONS

Follow the instructions in the safety data sheet.

It is recommended to carry out at least the following measures:

- Good ventilation.
- Protective glasses to avoid splashes.
- Rubber gloves.
- In case of contact with eyes, flush with plenty of water for 15 minutes.
- In case of contact with skin wash with soap and water.
- Do not swallow. In case of ingestion do not induce vomiting and seek medical attention immediately. Do not dilute with water.

Empty containers must be disposed of in accordance with current legislation. Keep out of the reach of children.

The product contains silica. In case of sanding, silica particles (respirable fraction) may be released, so the use of respiratory protection is recommended.

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 one year from the manufacture date if properly stored.

PACKAGING FORMAT

Se presenta en envases de:

- Microröck® Fine, Medium, Base and Thick Base - 10 Kg.
- Microröck® Catalyst - 1 L.
- Microröck® Fine, Medium, Base and Thick Base - 5 Kg.
- Microröck® Catalyst - 500 ml.



EN 4/4