



CONMARBLE
NATURAL FINISHES



TECHNICAL DATA SHEET
MICROPOOL
Fine · Medium · Base · Thick Base

A CONMARBLE NATURAL FINISHES SYSTEM · MICROCEMENT

MANUFACTURED BY

CEMHER

Cemher · Spain

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JULY 2026

CEMHER®

TECHNICAL DATASHEET

Micropool



Micropool® Fine

Micropool® Medium

Micropool® Base

Micropool® Thick Base



UNE - EN 13813

All the data collected in this document are based on tests carried out in our laboratories

The product should not be used for purposes other than those specified without first having instructions in writing. It is always the user's responsibility to take suitable measures in order to comply with the requirements established in local legislation. Product safety sheets are available for professionals. This technical data sheet will be valid until a new edition appears.

Last edit: 23/10/2023

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MICROPOOL - TWO COMPONENT MICROCEMENT

Micropool® is a two-component, waterproof material that only needs to be mixed with a catalyst for hardening.

It is specially designed for applications on surfaces immersed in water such as swimming pools. Specifically formulated to create certain water vapor permeability to avoid blistering or bubbling due to lack of permeability.

Thanks to its impermeability, it is not necessary to apply several coats of sealant to protect it. It does not break or crack.

USES

High-performance microcement designed to be used as a continuous coating in swimming pools. It cannot be placed on radiant floor. Specially recommended for swimming pools.

It can also 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 good mechanical performance and a good decorative finish are required.
- The two grain sizes are suitable for floors and walls.

MODO DE EMPLEO Y APLICACIÓN**A. Surface preparation:**

Before applying Micropool® microcement, the surface must be properly prepared. 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. This can be done by sanding or stripping, making sure to leave the surface in good condition. If it is necessary to repair, consolidate or seal joints, proceed before priming. In case of humidity, use Vapoepox®.

B. Mix:

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

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

Pigment the resulting mixture with the color 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 Micropool® 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.

Micropool® Fine	2,2m ² /kg
Micropool® Medium	1,8m ² /kg
Micropool® Base	1,1m ² /kg
Micropool® Thick Base	0,9m ² /kg

D. 1st Step / Preparation coats:

Once the surface has been prepared and is in perfect condition, apply two coats of Micropool® Thick Base or Micropool® Base with a metal trowel of 1 mm maximum each, allowing each coat to dry. The drying time of each coat will depend on the environmental conditions at the moment of the 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 Micropool® Fino or Base depending on the desired aesthetic finish and spread it with the help of a steel trowel, these coats should be very thin, maximum 0.5mm. Use the technique:

"Wet-on-dry"

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

F. 3rd Step / Sealing:

Before sealing Micropool® it is recommended to let it dry for at least 48h. Apply Maxipur® 100 varnish (solvent-based) using a roller, only one coat. Leave it to act for at least one week to achieve maximum performance.

MAINTENANCE

Allow Maxipur® sealant to dry for at least one week before wetting.

- Polyurethanes reach their full chemical properties after two weeks.
- Do not use detergents and do not cover before two weeks.

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

MICROPOOL 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	Clase 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



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
28 Days without pressure



**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* = Without sealant

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

It is available in packages of:

- Micropool® Fine and Base – 10Kg.
- Micropool® Catalyst – 1L.