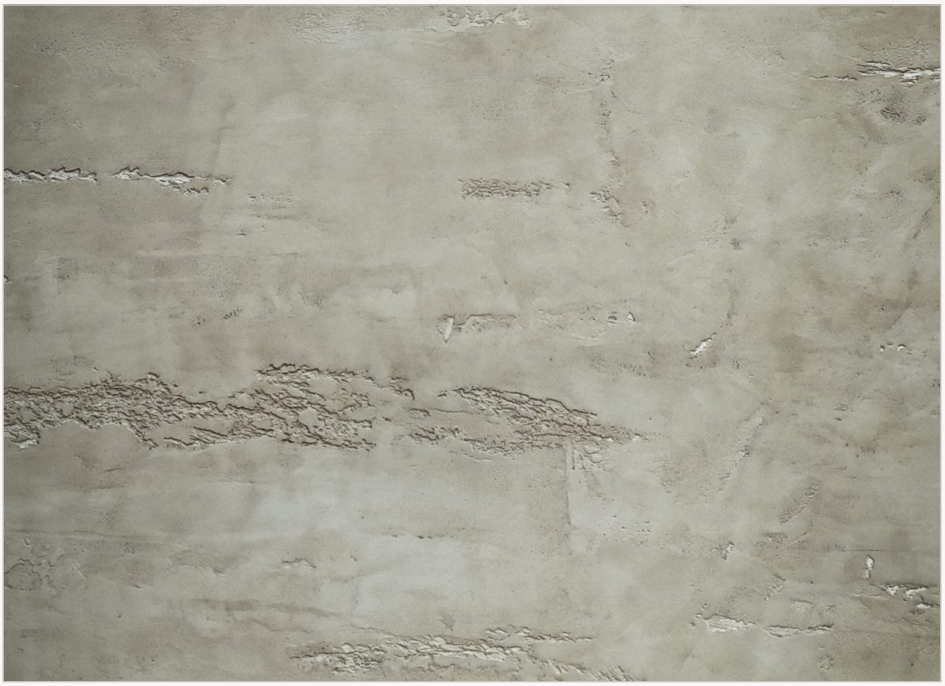
CONMARBLE
NATURAL FINISHES



TECHNICAL DATA SHEET

CEMHER MICROTADELAKT THICK BASE

Lime-Based Plaster

A CONMARBLE NATURAL FINISHES SYSTEM · LIME PLASTER

MANUFACTURED BY

CEMHER

Cemher · Spain

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JULY 2026

MICROTADELAKT - ONE COMPONENT THICK BASE LIME PLASTER

Microtadelakt® Thick Base is a Formulated with hydraulic binders, selected aggregates and lime, Mi-crotadelakt must be mixed with water according to the proportions in this data sheet to guarantee the properties of the coating.
Once mixed, it allows the creation of a coating with a high thickness of 5 to 15 mm, with high mechanical resistance for external use, very good workability and strong adhesion on any type of support: concrete, cementitious mortars, ceramics, MDF, plaster and plasterboard.

USES

Microtadelakt® is suitable for the realization of:

- Highly decorative continuous coatings for exterior walls and ceilings.
- Coating of furniture, shelves, kitchen countertops, counters, etc.
- Coating of underfloor heating and fireplaces.
- Coating of old ceramic tile coverings.
- Applicable in interior and exterior rooms, as well as in kitchens, bathrooms and terraces.
- Decorative coating for stores, offices, lobbies, exhibition areas, homes, etc.

CHARACTERISTICS / BENEFITS

- One-component lime-based mortar with graded aggregates for high build
- Breathable and hygroscopic; regulates indoor humidity; discourages mold growth.
- CO_2-absorbing lime binder; low VOC; eco-friendly.
- High adhesion to mineral substrates; excellent workability
- Excellent workability
- Designed for thick applications: up to 20 mm per coat; maximum total build 100 mm in multiple coats.
- Provides an even, stable substrate for Microtadelakt Base/Regular/Medium finish coats.

METHOD OF USE AND APPLICATION

A. Surface preparation:

Substrate must be sound, clean, dry, and planar. Remove weak or friable areas, dust, grease, salts. Where needed, use system accessories as per project conditions: mineral consolidator for weak renders, fiberglass mesh, adhesion promoters (Primer 100), vapor/rising-damp barriers. Correct major unevenness mechanically before application. (Embed full-coverage alkali-resistant fiberglass mesh in the first coat for any build >10 mm and on dissimilar substrates.)

B. Mix:

Add powder to clean water while mechanically mixing at low speed until smooth and lump-free. Recommended starting ratio: 20 kg per 4.5–5.0 L water (adjust slightly for temperature and tool feel; stiffer for thick lifts, looser for tight keying). Mix ~2 minutes, rest 1 minute, remix briefly.

C. Mortar preparation:

The mortar should be prepared in the following way:

1. Dose water and any approved pigments, then mix to a uniform liquid.
2. Gradually add the Thick Base powder while mixing.
3. Mix to a homogeneous, workable mortar with no lumps.

D. Consumption:

Rule-of-thumb density: ≈1.7–2.0 kg per mm per m².
Typical guidance:
- 10 mm total build ≈ 17–20 kg/m²
- 20 mm total build ≈ 34–40 kg/m²

Increase proportionally for thicker sections up to 100 mm (multiple coats).

E. Preparation coats:

Apply with a stainless-steel or aluminum trowel over primed substrate. Create a good mechanical key on very smooth surfaces. Coat thickness: 10–20 mm per pass. For the first coat, embed continuous alkali-resistant fiberglass mesh into the fresh mortar with 100 mm laps at joints and around openings. Allow the coat to dry/cure fully (typically 12–24 h per 10–20 mm depending on climate; longer in cold/humid conditions). Lightly plane or sand high spots before the next coat.

F. Finish coats:

Thick Base is a build/leveling layer; do not burnish to a polished effect. After full cure and surface preparation, overcoat with Microtadelakt Base (as a tight coat) followed by Microtadelakt Regular/Medium to achieve the desired Tadelakt/Marmorino/Polished-stone aesthetic. Respect drying between coats and perform light inter-coat sanding only where specified.

G. Sealing:

Cemher® microcements must be sealed after they have hardened within 24 to 48 hours. The coating can be sealed when it has a humidity of less than 5 %, the Thick Base is a build/leveling layer; do not burnish to a polished effect. After full cure and surface preparation, overcoat with Microtadelakt Base (as a tight coat) followed by Microtadelakt Regular/Medium to achieve the desired Tadelakt/Marmorino/Polished-stone aesthetic. Respect drying between coats and perform light inter-coat sanding only where specified.measurement is carried out with instruments designed for this purpose. Cemher® microcements can be sealed with Hidroprimer® water-based primer and Aquamax® water-based or Maxipur® solvent-based varnish. We recommend carefully following the application advice in the technical data sheets.

PRODUCT POT-LIFE

Approx. 90–120 minutes at 20 °C. Prepare manageable batch sizes and respect open time.

kilnher group®
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GENERAL TECHNICAL DATA

Type:	One-component Microtadelakt Thick Base — lime-based plaster with graded aggregates
Minimum temperature of application:	+ 10 °C
Workability (a 20 °C):	90–120 minutes
Wheeled furniture:	Yes
Suitable for hot water/electric underfloor heating:	Yes/No
pH-range (After 1 day):	12 pH

MICROTADELAKT 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	λ=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	>2 N\mm^2 Class B 4,0
Impact resistance UNE EN 13813:2014	UNI EN 6272-2:2012	>16,5 Nm IR 18
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	>15 N\mm^2 Class C40
Determination of abrasion resistance BCA 1* UNE EN 13813:2014	UNI EN 13892-4:2003	Class: AR 0,5 (max 50 µm)

Permeability to liquid water UNE EN 1504:2005	UNE EN ISO 1062-3:2008	<0.5 Kg / (m^2*$h^{0,5}$)
Resistance to severe chemical attack UNE EN 1504:2005	UNI EN 13529:2005	Class: 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	Clase: 1 Sd<5 m No alteration and no reduction in hardness.

1* = Without sealant

SPECIAL PRECAUTIONS

- 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 below 10°C.

Low temperatures lengthen and high temperatures significantly reduce product shelf life and drying. Empty containers should be disposed of in accordance with current legislation. Keep out of the reach of 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 properly stored.

PACKAGING FORMAT

It is available in packages of:

- Microtadelakt® Thick Base - 20 Kg.
- Microtadelakt® Thick Base - 1000 Kg.

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