# Plaster BASE mineral

CP-BA_M

**Description**
Clay base plaster
made from unpolluted,
undisturbed soil.

**Circularity**
±98% secondary resources
100% Closed Loop Recycling
100% Reusable

**Manufacturer**
BC materials in Brussels, Belgium

## Product

**Composition**

— Dordogne Clay
— Loess loam from excavated urban sites (mineral waste stream)
— Coarse washed sand from excavated urban sites (mineral waste stream)

Clay

Loess loam

Coarse washed sand

| | | | |
|---|---|---|---|
| **Designation** | Lehmputzmörtel (LPM) — DIN 18947 — 0/4 f — S II — 1,8 | | |
| **Physical properties** | Density class | 1610 kg/m³ | DIN 18947 |
| | Strength class | SII | DIN 18947 |
| | Particle size <4mm | ≥97,5% | DIN 18947 |
| | Oversize particles 4mm - 6,3mm | ≤2,5% | DIN 18947 |
| | Oversize particles 6,3mm - 8mm | ≤0% | DIN 18947 |
| | Compressive strength | ≥1,5 N/mm² | DIN 18947 |
| | Flexion strength | ≥0,7 N/mm² | DIN 18947 |
| | Adhesive strength | ≥0,1 N/mm² | DIN 18947 |
| | Abrasion | ≤0,7 g | DIN 18947 |
| | Impact diameter | <15mm | EN 520 |
| | Water vapor diffusion number $\mu$ | 5/10 | DIN 18947 |
| | Thermal conductivity $\lambda$ | 0,9 W/mK | DIN 18947 |
| | Fire Reaction | A1 (Non-flammable) | DIN 18947 |
| | Airtightness of thickness 10mm/20mm at pressure 50 Pa | 0,10/0,30 m³/h.m² | TVN 284 |
| | Global Warming Pot. (GWP)(C2C) | 0,04 kg$CO_2$eq/kg | DIN 18947<br>EN 15804:A2 |
| | Environmental Impact (PEF)(C2C) | 0,25 mpt/kg | DIN 18947<br>EN 15804:A2 |
| | VOC-emissions | VOC-free | |
| **Shelf life** | Can be kept indefinitely when stored dry. | | |
| **Packaging** | Slightly humid.<br>1 ton or 500kg in bigbag on europalet. | | |
| **Usage** | Thickness 6mm – 10,2kg/m²,<br>Thickness 10 mm – 17 kg/m²,<br>Thickness 15 mm – 25 kg/m². | | |

# Field of application

Base layer coat and rough finishing coat for interior walls and ceilings.
Suitable for damp rooms, do not apply to areas in direct contact with water.
Suitable for single-layer 6 - 15 mm plastering of uneven, rough, flat, substrates such as masonry, reed mats with reinforcement net, stone mesh, cement, lime and gypsum plasters, concrete and various types of sheet material.
Check the Léém Clay Plasters & Paints Guide for more info.

# Characteristics

Circular material in origin: Valorization of a "waste" stream
Circular material in destination: infinitely reusable
Low in $CO_2$: no combustion required to produce the building material
Made of undisturbed, unpolluted soil
Moisture and heat regulating
Vapor-open
Anti-static
Reduces acoustic transmission and reverberation
Colorstable
Non-flammable and fire resistant
Airtight
Repairable
VOC-free

# Execution

**Storage**
Store in a dry place, lifted from the ground. The prepared Plaster mixture has a workable time of several days.

**Conditions**
During application, the air temperature must be > 5°C. The substrate must be frost-free, stable, firm, adequately coarse and clean. Pre-treatment may be necessary with different types of primer for different types of substrate. See our Léém Clay Plasters & Paint Guide for further instructions on priming.

**Application**
**Preparation of the mixture**: Mix the dry mass vigorously with clean water using a mortar mixer. Leave the mixture to stand for 5 minutes, then mix again for 1 to 2 minutes.
**Sample application**: In all cases, the suitability of the entire surface structure of the primer and coating should be tested by means of a sample application over a sufficient area.
**Application**: The rules of craftsmanship are carefully observed when applying rendering. The eventual topcoat can be floated, sponged or textured.
**See our Guide** for Léém Clay Plasters & Paints for colour blending guidelines, and more.

**Drying time**
Under normal conditions (20°C and 50% relative humidity), the plastered wall will dry in 4 to 7 days. A building dryer can be used.

**Tools**
Tub, mortar mixer, plant sprayer, trowel board, stainless steel trowel, float, stainless steel spackle knife, sponge, plastic trowel and float, dustpan (wallpaper brush), painter's tape. Suitable worm and piston pumps: SP11/20/25, S28, P13, S5 & S30,...

**Disposal**
Before disposing of Léém Clay Base residues, remember to recover and reuse them on site, or let them dry and save them for future repairs. When used correctly, Léém Clay Base is harmless to humans and the environment. After having dried out, residues can be disposed of with household waste or non-hazardous inert waste.

# Legislation

**Conformity**
Complies with Brussels Soil Ordinance and Decree March 29, 2018.
Complies with Flemish Soil Decree and its implementation rules (VLAREMA and VLAREBO).
Tested on 40+ parameters of pollution: Non-polluted resources: No PCB, asbestos, PFC, lead, flame retardants, phthalates, isocyanates, PFAS, ...