



Description

Earth masonry mortar made from unpolluted, undisturbed soil.

Circularity

±50% 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)
- Brusseliaansand from excavated urban sites (mineral waste stream)
- Rhine sand



Dordogne clay



Loess loam



Brusseliaansand



Rhine sand

☰ **Designation**

Lehmmauermörtel (LMM) – DIN 18946 –O/2 (f) – M2,5 – 1,8

📏 **Physical properties**

Density class	1,8 kg/m ³	DIN18946
Strength class	M2,5	DIN18946
Particle size <2mm	≥96%	DIN18946
Oversize particles 2mm – 4mm	≤3,5%	DIN18946
Oversize particles 4mm – 6mm	≤0,5%	DIN18946
Linear shrinkage	1,9%	DIN18946
Compressive strength	2,5 N/mm ²	DIN18946
Initial shear strength	0,06 N/mm ²	DIN18946 EN1052-3
Water vapor diffusion number μ	5/10	DIN18946
Thermal conductivity λ	0,9 W/m ² K	DIN18946
Fire Reaction	A1 (Non-flammable)	DIN18946
Global Warming Potential	See TS CP-PL	DIN18946 EN15804:A2
Environmental Impact (LCA)	See TS CP-PL	DIN18946 EN15804:A2
VOC-emissions	VOC-free	EN16516

🕒 **Shelf life**

Can be kept indefinitely when dry.

📦 **Packaging**

Slightly humid.
500kg in bigbag on europalet, or 25kg paperbag with plastic film.
Straw fibers on demand.

🏗️ **Usage**

10mm joints without mortar spillage in halfblock masonry walls:

MEB_b:	31,5 kg/m ²	500kg = 16m ²	25kg = 0,8m ²
MEB_c:	47,5 kg/m ²	500kg = 10,5m ²	25kg = 0,5m ²
MEB_o:	25 kg/m ²	500kg = 20m ²	25kg = 1m ²
CEB_90:	15 kg/m ²	500kg = 34m ²	25kg = 1,7m ²
CEB_140:	23 kg/m ²	500kg = 22m ²	25kg = 1,1m ²
CEB_190:	31 kg/m ²	500kg = 16m ²	25kg = 0,8m ²







Field of application

Earth masonry mortar for 10 mm joints in non-loadbearing earth block masonry. Suitable for damp rooms, do not apply in areas in direct contact with water. Protect from washing away by rain during construction site works. Suitable for loadbearing walls if physical properties and variations due to humidity during and after construction are taken into account. See our Guide to Lēēm Earth Block Guide for more information on design and execution guidelines


Characteristics

Circular material in origin: Valorization of a "waste" stream
 Circular material in destination: infinitely reusable
 CO2 neutral: 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
 Airtight
 Repairable

Execution

 Storage	Store in a dry place, lifted from the ground.
 Conditions	Upon execution, the temperature of the air and substrate should be minimum 5°C.
 Application	The rules of craftsmanship are carefully followed when masoning. Prewet earth blocks before applying mortar. Add 20 - 25% of water until plastic consistency. Please check Léém Earth Block Guide for conception and execution guidelines.
 Drying time	Under normal conditions (20°C and 60% relative humidity), the masoned wall will dry in 28 days. A building dryer can be used.
 Tools	Tub, mortar mixer, planetary mixer, concrete mixer.
 Disposal	Before disposing of Léém Earth Mortar residues, remember to recover and reuse them on site, or let them dry and save them for future repairs. When used correctly, Léém Earth Mortar 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	<p>Complies with Brussels Soil Ordinance and Decree March 29, 2018.</p> <p>Complies with Flemish Soil Decree and its implementation rules (VLAREMA and VLAREBO).</p> <p>Tested on 40+ parameters of pollution: Non-polluted resources: No PCB, asbestos, PFC, lead, flame retardants, phthalates, isocyanates, PFAS, ...</p>
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Disclaimer

The information in this product description has been compiled with the greatest care. Compensation claims, unless they result from factory mixing errors, are excluded. With each new edition of the product information, the validity of the previous edition expires.