

Latermix Cem Classic



Compressive Strength
2,5
MPa

Density
600
kg/m³



QUICK-DRYING LIGHTWEIGHT INSULATING PERMEABLE CONCRETE

FOR USE (INCLUDING IN THICK SCREEDS) AS A BASE OR BACKFILL, A SUBSTRATE, FOR CREATING FALLS AND FOR INSULATION AND DRAINAGE



Latermix Cem Classic is a bagged pre-mixed lightweight permeable insulating no fines concrete based on special Laterlite Plus hydrophobic expanded clay of intermediate grain size, and is ready for use after mixing with only water.

CHARACTERISTICS

Quick-drying

The mix requires only minimal amounts of water and dries quickly even in thick layers, thanks to its open-pore structure and its formulation based on hydrophobic Laterlite Plus expanded clay.

Lightweight

Latermix Cem Classic, in situ, weighs approx. 600 Kg/m³, less than one third the weight of a traditional or flowing screed and less than a quarter of that of structural concrete. It reduces dead loading and is particularly suitable for reconstructing existing floors, vaults, or roofs, or to prevent excessive loading in seismic zones.

Insulating characteristics

Because is over than 10 times more insulating than traditional concrete products ($\lambda = 0.134 \text{ W/mK}$), it can be used to supplement or replace the insulation in flat or pitched roofs, floor slabs, and vaults, and reduces thermal bridging. Its porosity improves acoustic insulation.

Strong, stable, and durable

It has high compressive strength (2,5 MPa), is dimensionally stable and non-deformable, and retains its properties unaltered over time. It is the ideal support to take top screed layers.

Non-combustible and fire-resistant

This is a 100% mineral non-combustible product (Euroclass fire rating - A1) that is fire-resistant and safe, including in the presence of fire.

High drainage capacity

Thanks to its network of intergranular voids it is extremely permeable to water and can also be used as support, backfill, or as a layer of draining ballast on a roof or on the ground.

Suitable for sustainable construction

The natural raw materials used in Latermix Cem Classic, its manufacturing process, which respects the environment, and the absence of harmful emissions (even in the presence of fire), make it suitable for sustainable construction as certified by ANAB-ICEA, the Italian Accreditation Institute.

APPLICATIONS

- For creating falls and thermally insulating flat roofs.
- As a lightweight insulating substrate on a floor slab (incorporating services if required)
- As a lightweight insulating backfill and levelling including in thick layers (vaults, etc.)
- As a lightweight draining layer of high compressive strength. N.B. if an impermeable layer or top finish is to be applied, a levelling screed is required.



TECHNICAL CHARACTERISTICS

Apparent packed density (approx.)	500 kg/m ³
In-place density (approx.)	600 kg/m ³
Average compressive strength	2,5 N/mm ² (25 kg/cm ²)
Thermal conductivity λ	0,134 W/mK
Drying times (3% RH)	7 days (th. 5 cm)
Suggested thicknesses	$\geq 5 \text{ cm}$
Bags required per 1 m ² of floor area	0,21 bags per 10 mm depth
Package: bags each of 50 litres on non-returnable wooden pallets, 60 bags/pallet - 3,0 m ³ /pallet.	
Storage life: 12 months from date of packaging.	

Refer to the Technical Data Sheet and the Safety Information Sheet.

