Latermix Béton 1400

Compressive Strength 25 MPa

Density 1400 kg/m³

LIGHTWEIGHT INSULATING STRUCTURAL CONCRETE

FOR STRENGTHENING FLOOR SLABS, CONSTRUCTING COMPOSITE SLABS, AND REDUCING THERMAL BRIDGING

Latermix Beton is a bagged pre-mixed lightweight insulating structural concrete based on special Laterlite Plus hydrophobic expanded clay of medium-fine grain, and is ready for use after mixing with only water.

CHARACTERISTICS

Structural strength

Latermix Beton 1400 is a true structural concrete of class LC 20/22 (Rck 25 MPa – 250 kg/cm²) that can be used for load-bearing structures compliant with EN 206 and Eurocode 2.

Lightweight

Latermix Beton 1400 contains Laterlite Expanded Clay as a replacement for traditional aggregates that significantly reduces weight by at least 1,000 kg (1 tonne) per m³. It has a density of 1400 kg/m³ (as opposed to 2400/2500 kg/m³ of an ordinary concrete) and is classified as an LWAC (lightweight aggregate concrete). It is particularly suitable for reconstruction work, for strengthening existing structures, or to prevent excessive loading in seismic zones.

Insulating characteristics

Its lambda (λ -thermal conductivity) is 4,5 times lower than that of an ordinary concrete (λ = 0.42 W/mK as opposed to 1.9 W/mK). It reduces thermal bridging, increases the energy efficiency of buildings, and prevents the development of building pathologies such as condensation and mould.

Reliable performance

The binder dosage and grading curve of the components are factory checked and maintained constant. Using only water for the mix means that the performance of the completed component can be controlled effectively; this is particularly important for guaranteeing strength in structural applications and eliminates the risk and inaccuracy associated with products mixed on site.

Non-combustible

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

APPLICATIONS

- Structurally strengthening existing floors (in timber, steel, or concrete) by means of the composite floor construction
- New structural floors (steel + concrete or timber + concrete composite floors, concrete floor slabs, etc.)
- Strengthening and stiffening loadbearing masonry (edge beams, columns, etc.)
- Reducing thermal bridging in the structural elements of a building envelope

TECHNICAL CHARACTERISTICS

Apparent packed density (approx.)	1.150 kg/m³
Density (EN 206-1) (approx.)	1.400 kg/m³ (classe D 1,5)
Characteristic compressive strength (EN 206-1)	25 N/mm² (250 kg/cm²)
Modulus of elasticity (EN 206-1)	E = 15.000 N/mm²
Thermal conductivity λ	0,42 W/mK
Bags required per 1m² of floor area	0,47 bags per 10 mm depth
Reaction to fire	Euroclass fire rating A1
Package: bags each of 25 litres. on non-returnable wooden pallets, 56 bags/pallet - 1,4 m³/pallet.	
Storage life: 12 months from date of packaging.	

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