



Ecocem Ultra 32,5 N Alkali Activated Binder

Ecocem Ultra is a hydraulic binder that is manufactured in a specific process.

Ecocem Ultra is intended for use in the preparation of concrete, mortar and other construction mixes and in the manufacture of construction products. It is characterised by high resistance to chemical attack and low heat of hydration.

Manufacturing

Alkali Activated Binder **Ecocem Ultra** is produced by industrial mixing of its constituents.

The production of the binder does not involve a combustion process.

Its composition is statistically homogeneous due to quality assurance covering the production and handling processes.

CHEMICAL CHARACTERISTICS

Sulfate content (SO ₃)	< 4,0 %
Chloride Content (Cl ⁻)	≤ 0,10 %
Na ₂ O _{eq}	2,8 %

MECHANICAL CHARACTERISTICS (Indicative representative values)

Compressive strength (In accordance with NF EN 196-1)	
Early strength (7 days)	32 MPa
Satandard strength (28 days)	44 MPa
Long-term strength(90 days)	57 MPa

PHYSICAL CHARACTERISTICS (Indicative representative values)

Fineness (Blaine method)	4 500 cm ² /g
Density	2,86 g/cm ³
Bulk Density	0,8 g/cm ³
Soundness	0,6 mm (In accordance with NF EN 196-3)
Initial Setting time	30 min (In accordance with NF EN 196-3)
Final Setting time	60 min (In accordance with NF EN 196-3)
Heat of hydration Q41	111 J/g

Révision : 22/09/2021
The values indicated are averages and may vary slightly within the limits allowed by the standard.

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