

CEM II/B-L 32,5 N

UNE-EN 197-1 CEM II/B-L 32,5 N
Portland limestone cement



This type of cement can be used in mass and reinforced concretes, especially in mass concrete placement. His use in mortars provide an excellent workability and water retention.

Composition

The UNE-EN 197-1 standard indicates that the main and minor components of this cement, as well as their proportions by mass, will be those indicated in the following table:

Components	(%) ⁽¹⁾
Clínker	65-79
Limestones	21-35
Minor components ⁽²⁾	0-5

(1) The values in the table refer to the sum of the main and minor additional constituents.

(2) Minor additional constituents are specially selected, inorganic natural mineral materials, inorganic mineral materials derived from the clinker production process or main constituents unless they are included as main constituents in the cement.

Mechanical and physical requirements

The mechanical and physical requirements specified by EN 197-1 for these cements are

Compression strength (MPa)		Initial setting time (min)	Soudness (Expansion) (mm)
Early (7 días)	Standard (28 días)		
≥ 16	≥ 32,5 y ≤ 52,5	≥ 75	≤ 10

Chemical Requirements

The chemical requirements specified by EN 197-1 for these cements are:

Property	Requirements ⁽¹⁾
Sulfato (SO ₃)	≤ 3,5 %
Cloruros (Cl ⁻)	≤ 0,10%

(1) Given as percentage by mass of the final cement.

This cement has the AENOR product N mark that guarantees compliance with Cr (VI) as well as higher quality vs the minimum required in the standard.



Aplicaciones

This cement can be used or is indicated for:

- Mass and reinforced concretes.
- Treatment of road materials for bases, sub-bases and capping layers.
- Masonry.
- Paving and flooring

In Spain, this type of cement can not be used in prestressed concretes (table 26 of Spanish Instrucción EHE).

Additional applications

You can have more information about the uses and applications of this cement in the annexe 8 of the Spanish Instrucción RC and in the annexe 4 of the Spanish Instrucción EHE.

Storage

The cement must be stored in conditions that isolate it of the humidity. In the case of bag cement it must be piled up on pallets and will be conserved in covered zones, ventilated and protected of the direct exposure to the sun or rain.

In the case of cement in bulk it is recommended storage it in watertight silos