

CEM II/A-V 42,5 R

EN 197-1 CEM II/A-V 42,5 R
Portland fly ash cement



Cement intended for use in mass, reinforced and prestressed concrete. Suitable in precast elements.

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⁾
Clínter	80-94
Fly ash	6-20
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 (2 days)	Standard (28 days)		
≥ 20	≥ 42,5 ≤ 62,5	≥ 60	≤ 10

Chemical Requirements

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

Property	Requirements ⁽¹⁾
Sulphate content (SO ₃)	≤ 4,0 %
Chloride content (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.



Uses and applications

As a general rule, this cement is indicated for:

- Mass, reinforced and prestressed concrete.
- Concrete in precast elements.
- When rapid stripping and stripping are required.
- Shotcrete.

This cement can be used in prestressed concrete (table 26 of the Spanish Instruction 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.

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