CIMPOR

PRODUCT DATA SHEET

POZZOLANIC CEMENT SULFATE RESISTING

CEM IV/A (V) 42,5 R-SR

CE

EN 197-1 0856

Porto of Leixões antifere blocks

Constituents

65% ≤ Clinker ≤ 79%
21% ≤ Siliceous fly ash ≤ 35%
Additional minor constituents ≤ 5%
Calcium sulfate as setting regulator

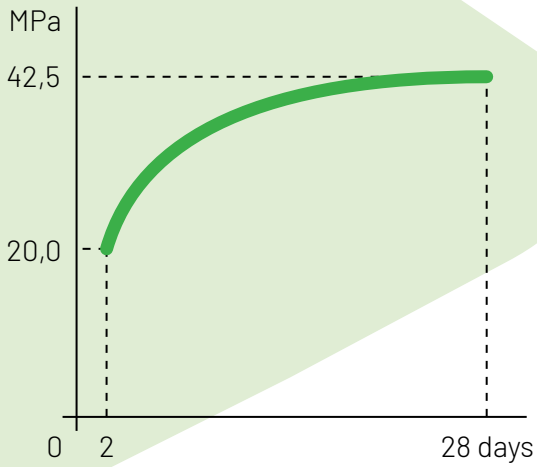
Requirements

- **Chemical**
  Sulfate content (SO_3) ≤ 3,5%
  Chloride content (Cl^-) ≤ 0,10%
  Clinker C_3A ≤ 9%
  Pozzolanicity: Satisfies the test at 8 days

- **Physical**
  Initial setting time ≥ 60 min
  Soundness ≤ 10 mm

- **Mechanical**
  Compressive strength
  Minimum values
  2 days: 20,0 MPa
  28 days: 42,5 MPa

Compressive strength
Minimum growth curve



Especial features of concrete made with this cement

- Moderate heat of hydration with slow development
- Gradual progression of strength even after 28 days
- Good performance in aggressive environments, even when exposed to sulfates
- High compactness and resistance to water penetration at late ages

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Recommended for

- **Reinforced concrete:**
  Particularly indicated for classes in the range of C20/25 to C35/45
  Works with very long comissioning
- **Road pavements:**
  Road foundations
  Bound granular base layers
  Concrete surface layers
- **Mass concrete**
- **Concrete in aggressive environments**
- **Seawater works**

Packaging and Delivery

30 ton truck with self discharge means and properly sealed

Bulk
±30 tonnes

For exportation purpose, please contact our Sales Department

Precautions regarding use

- Attend the standard minimum cement content and maximum water/cement ratio
- Provide adequate protection and cure according to corresponding standards
- Keep framework and scaffolding in place until required strength is obtained
- When in aggressive environments, strictly follow standard recommendations and technical guidance on the subject

Not recommended for

- Concrete requiring fast strength development
- Pre-stressed concrete
- Concreting under low temperatures

Environment and Safety

- Wear proper protective clothing, gloves and eye/face protection equipment
- The production of this cement represents a decrease of CO2 emissions
- For more information, check the Safety Data Sheet, available at www.cimpor.com

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