

# CEM I 52,5 N-SR 5

UNE-EN 197-1: 2011



## Recommended

- Constructions in mass, reinforced and prestressed concrete where high mechanical strength is required, subject to the action of sulphates from water or soil or to the action of sea water
- Constructions in high-strength prestressed and reinforced concrete
- Structural and non-structural prefabrication

## ■ Contraindicated

- Mass or reinforced concrete in large volumes
- Road bases treated with cement
- Compacted dry concrete

## ■ Precautions

- Care in storage, dosing, mixing and duration of concrete transport
- Pay special attention to curing at early stages
- Prevent fissuring during the first few hours

Available in bulk and in 25 kg bags

## TYPE CEM I

August 2020



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## ■ Components

- Clinker:  $\geq 95,0$  % by mass.
- Additional components: 0 - 5% by mass.

These values exclude the setting regulator and additives.

## ■ Physical properties

- Initial setting time  $\geq 60$  minutes.
- End of setting  $\leq 12$  hours, according to Spanish Cement Reception Instruction RC-16.  
Not specified in Standard UNE-EN 197-1.
- Expansion: (Le Chatelier)  $\leq 10$  millimetres.

## ■ Chemical properties

- LOI:  $\leq 5,0$  %
- IR:  $\leq 5,0$  %
- $\text{SO}_3$ :  $\leq 3,5$  %
- Cl:  $\leq 0,10$  %

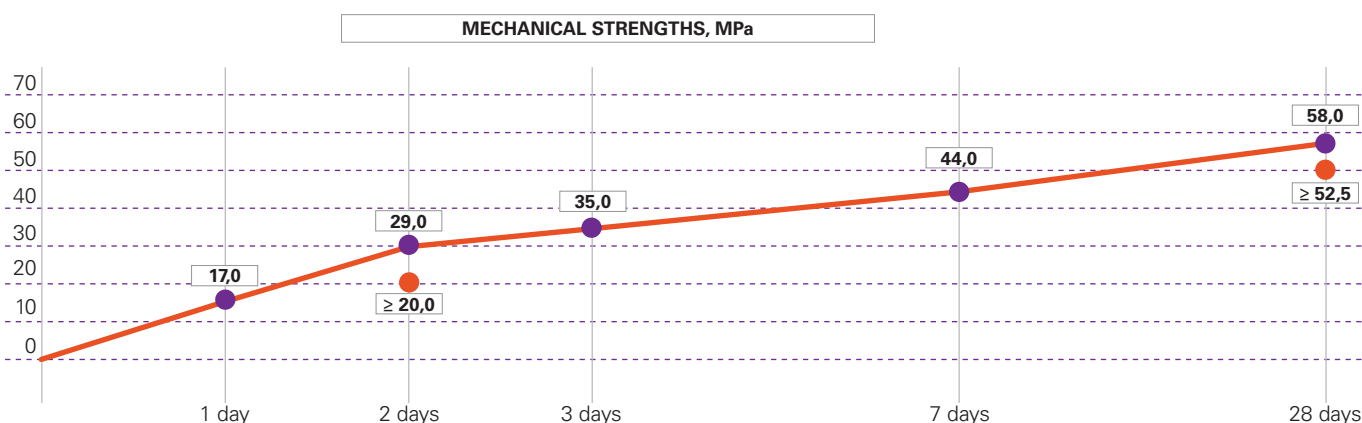
## ■ Mechanical properties

(Compressive strength in normalised mortar)

- 2 days:  $\geq 20,0$  MPa
- 28 days:  $\geq 52,5$  MPa.

## ■ Properties relative to clinker

- $\text{C}_3\text{A} \leq 5,0$  %



● Minimum standard

● CEM I 52,5 N-SR 5 Average results obtained in Cementos Lemona

\*The indicated average strengths are given solely as a guideline, and should not be considered as an additional warranty or different from the standard itself.