

## Description

CEM I 42.5 N is a high-quality Portland cement, suitable for a wide range of applications in the fields of concrete and mortar. Comprising more than 95 % clinker, it offers excellent mechanical performance, high uniformity and consistent stability, thereby ensuring optimum reliability for construction works.

CEM I 42.5 N is certified in accordance with the UNE-EN 197-1 standard, with the certificate of consistent performance No. 0099/CPR/A33/1159 issued by AENOR and also complies with the requirements of the Tunisian standard NT 47.01.

## Value-Added Features

- ✓ High mechanical strength
- ✓ Excellent quality and uniformity
- ✓ Easy to use and good workability
- ✓ Steady strength development
- ✓ Versatile for use in concrete and mortar
- ✓ Compatibility with various admixtures
- ✓ Long-term durability and reliability of the structures built.

## Cement Features

	Typical values	Specifications according to standard
<b>Clinker (%)</b>	>95	min. 95 – max. 100
<b>CHEMICAL</b>		
Sulphate, SO <sub>3</sub> (%)	2.6 - 2.8	max. 3.5
Chloride, Cl- (%)	<0.04	max. 0.10
Loss on ignition	2.5 - 3	max 5
Insoluble residue	<3	max 5
<b>PHYSICAL</b>		
Expansion (mm)	<5	max. 10
Initial setting time (min.)	120-180	min. 60
<b>MECHANICAL</b>		
2 days compressive strength (MPa)	20-25	min. 10.0
28 days compressive strength (MPa)	44-50	min. 42.5

## Recommended for

- ✓ Concrete structures (reinforced and non-reinforced)
- ✓ Foundations and slabs
- ✓ Residential, commercial and industrial buildings
- ✓ General civil engineering works
- ✓ Mortars and renders
- ✓ Precast concrete elements
- ✓ Ready-mix concrete applications
- ✓ Repair and renovation projects
- ✓ Durable and high-performance concrete works

## Not Suitable For

- X Sulfate-rich soils and aggressive chemical environments
- X Marine structures requiring sulfate-resistant cement

## Shipping and Storage

- Supplied in 50 kg bags.
- Bags should be stored in dry, well-ventilated areas, protected from ground and ambient moisture.
- Bulk cement must be kept in sealed, airtight silos to preserve its quality and performance.

## Worksite precautions

Proper curing is essential due to the cement's high reactivity. In hot, cold, dry, or windy conditions, ensure adequate moisture retention and protection to prevent rapid drying, cracking, and to guarantee optimal strength development.

**For more information, product specification, Safety data sheet, product quotes, please request it from us.**

## CUSTOMER SUPPORT:

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