



# PORTLAND CEMENT WITH LIMESTONE



## 1 - STANDARDS AND SPECIFICATIONS :

The Tunisian standard NT 47-01.  
The European standard : EN 197-1 : 2011

## 2 - PACKAGING :

- ◆ Bag of 50 Kg on the pallets or /and flatbed truck.
- ◆ Bulk.

## 3 - APPLICATIONS :

- ◆ Foundation, underground work non-aggressive.
- ◆ Concrete road.
- ◆ Coat.
- ◆ Precast elements in reinforced concrete.
- ◆ Reinforced concrete or not.
- ◆ Paving, industrial floors.
- ◆ Soil stabilization.
- ◆ Agglomerates.
- ◆ Current masonry.

## 4 - CAUTIONS FOR IMPLEMENTATION

- ◆ Respect the dosages according to type of structure.
- ◆ Use clean water, unsalted and unsweetened.
- ◆ Use suitable, clean aggregates for making concrete and mortar.

## 5 - COMPONENTS:

Constituents used without consideration of gypsum.

Limestone	Clinker
6-20	80-94

NB: Gypsum content ≤ 5%

## 6 - CHEMICAL CHARACTERISTICS AND MINERALOGICAL :

Chaux CaO	SiO <sub>2</sub>	AL <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MgO	K <sub>2</sub> O	Na <sub>2</sub> O	SO <sub>3</sub>	Cl
≥ 60 %	≥ 17%	≥ 4%	≥ 2,5%	≤ 2%	< 1%	< 1%	≤ 3.5%	≤ 0.1%

## 7 - PHYSICAL AND MECHANICAL CHARACTERISTICS :

Starting setting time	≥ 130 min
Stability	≤ 10 mm
Strenght 28 days	≥ 32.5 MPa et ≤ 52.5 MPa
Early strenght (7 days)	> 20 MPa
Blaine Specific Surface area SSB	≥ 3200 cm <sup>2</sup> /g