



PORTLAND CEMENT WITH LIMESTONE



1 - STANDARDS AND SPECIFICATIONS :

The Tunisian standard NT 47-01.

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 \leq 5%

6 - CHEMICAL CHARACTERISTICS AND MINERALOGICAL :

| Chaux CaO | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | MgO | K ₂ O | Na ₂ O | SO ₃ | Cl |
|--------------|------------------|--------------------------------|--------------------------------|-----------|------------------|-------------------|-----------------|-------------|
| \geq 60 % | \geq 17% | \geq 4% | \geq 2,5% | \leq 5% | < 1% | < 1% | \leq 3.5% | \leq 0.1% |

7 - PHYSICAL AND MECHANICAL CHARACTERISTICS :

| | |
|----------------------------------|------------------------------------|
| Starting setting time | \geq 130 min |
| Stability | \leq 10 mm |
| Strenght 28 days | \geq 42.5 MPa et \leq 62.5 MPa |
| Early strenght (2 days) | > 20 MPa |
| Blaine Specific Surface area SSB | \geq 3200 cm ² /g |