



# TEKNACEM 100

Dry grinding adjuvant.  
Incraser of resistance and productivity.



## DESCRIPTION

TEKNACEM 100 is a liquid additive in aqueous solution based on inorganic salts and modified linear amines that allows to improve the grinding capacity of ball mills. It acts by discharging the particle attraction forces produced during grinding, avoiding the agglomeration of the fines. The more advanced refining of the finer particles combined with the accelerating action promotes a good increase in mechanical resistance, especially the initial ones. Particularly suitable for composite and type B cements.

## GENERAL CHARACTERISTICS

TEKNACEM 100 keeps the mill's grinding bodies and armor clean, increasing their refining efficiency. With the same production, it reduces the energy required and the wear of all parts of the system and maintenance interventions. With the same amount of energy consumed, it increases productivity by 10-20%. On cements, the following advantages are highlighted:

- Increases the specific surface of the finished;
- Improves the homogeneity of cement;
- Gives the cement a good fluidification and reduces the pack-set during storage;
- Improves the wettability of cement and its hydration;
- Increases both initial and final mechanical resistance;
- Reduces the danger of false grip;
- Increases the flow of cementitious mixtures in the wet state;
- It is compatible with all additives for concrete.

## PHYSICAL PROPERTIES

Liquid state

Amber color

Density 20°C 1,20 ± 0,03 g/cm<sup>3</sup>

pH 20°C 8,5 ± 1

Chlorides present

Temp. ebolliz.

110°C

Temp. freezing:

< 5°C

Non-flammable flammability

Solubility in total H<sub>2</sub>O

## HOW TO USE

The standard dosage of TEKNACEM 100 is 0.2-0.4% by weight on the weight of the cement. Recommended dosage: 0.3 % p.p. on the weight of cement. Although the product reacts well with almost all cements, its optimal dosage must still be established experimentally since it is influenced by the clinker content and its composition, the type of cut and the fineness achieved.

### **Surdosaggio:**

A dosage double that indicated can cause excessive fluidification of the cement inside the plant downstream of the mill, the delay of the first resistances and an increase in compression resistances to 28 days.





## FIELDS OF APPLICATION

TEKNACEM 100 is normally used in the preparation of composite cements where a good acceleration of the first resistances is required both for the low clinker content and for its components or for the shortcomings brought by the cutting materials.

## PACKS

Bulk in tank.

In metal drums of 220 Kg.

In tanks of 1200 Kg.

## STORAGE

The product should be stored as close as possible to the point of use, protected from the sun and frost. In the original tightly closed packages and at temperatures between +5°C and +35°C is valid for 12 months. If it were to remain at temperatures below 0°C for a long time, crystallization separations may occur, in which case the product can be used after heating to +20°C.

## LEGAL

The information contained in this technical sheet, although representing the most advanced stage of knowledge, does not exempt the user from performing accurate preliminary tests in their conditions of use and operation. We therefore decline any responsibility for the improper use of the product.

