



## Normal and retarders superplasticizer and high water reducers

### (N, R, HR) Superplast PC3000

#### Description

These super-plasticizers are from the base of carboxylates which are made with new formulation. They are recommended for various types of sensitive and resistant concretes. We had better use these plasticizers during the process of making the concrete so that we can use their reducing power and keep the proportion of W/C low and consequently increase the concrete pressure resistance and its durability.

PC3000 (N): This type of super-plasticizer is a normal super-plasticizer and can't bring about any intensity or retarding in cement setting.

PC3000(R): Regarding the amount of its use, it can bring about 45 to 70 min retard in cement setting and can reduce the troubles of concreting in warm weather.

PC3000(HR): Regarding the amount of its use, it can bring about 70 to 100 min retard in cement setting and can remove the troubles of quick setting in warm weather or the problems of its carrying.

#### Advantages and Applications

- Appropriate for concreting in warm weather conditions due to their delay in setting
- Appropriate for carrying concrete for long distances
- Producing appropriate plasticity and preserving the paste quality of the concrete
- Concentrating their strength in dispersing the cement, they can result in the optimum use of cement.
- Reducing the proportion of water to cement and increasing the pressure resistance.
- Increasing the durability and shelf life of the hardened concrete
- Good agreement with micro-silica
- Appropriate for various kinds of concrete and readymade concrete and useable in truck mixers.





## Dosage

The dosage of each of the Pc3000 super-plasticizers is specified with regard to building materials, the design requirements and concreting conditions which are determined by laboratory tests. However, a dosage between 0.3 to 1.2 percent of the cement weight is recommended.

## How to use

Dissolve the amount taken from the laboratory, then mix the concrete with water or during making the concrete add PC3000 to the water and let the mixing operation continue for 2 or 3 minutes. As all super-plasticizers react chemically in water, avoid pouring them on dry materials. If you want to add it to readymade concrete, add the specified amount of this super-plasticizer from the terminal opening of the truck mixer and let the truck mixer turn fast with 70 to 90 turns in a minute.

## Specifications

Appearance: liquid

Without chlorine ion

Density:  $1.05 \pm 0.02$

PH:  $6 \pm 0.5$

Shelf time: keep in sealed container out of direct sunlight for 1 year

## Safety points

Superplast pc3000 contains no toxic materials; however, if you touch it, wash your body with water and soap. If your eyes are touched, wash your eyes with water for at least 10 minutes.

**Standards:** In accordance with ASTM C-494, European standard EN-9342, and Iran 2930 standard.

