



## Retarder super silica gel NR 200

### Description

This gel is a combination of concrete super-plasticizer based on modified Naphthalene formaldehyde and micro silica. Regarding the location of concreting, the dosage of retarder varies. This gel brings about appropriate consistency and more efficiency in addition to increasing concrete paste property and retards the cement setting time. Super silica gel is replacement alternative for powder super-plasticizer + micro silica and removes its technical problems. This gel is suitable for warm, dry and warm and dry areas. Also, it is appropriate for those areas in which the distance between the location of concrete making and concreting is too far.

### Advantages

- The even dispersion of cement and micro silica in concrete and having thorough homogenous concrete
- Reducing the environment pollution and boosting the health safety of the people
- Increasing the concrete slump and efficiency and reducing its water content up to 25%
- Retarding the setting time of the concrete and the possibility of its transportation and having time for troweling.
- Improving the properties of fresh concrete and increasing the quality of concrete paste
- Increasing the pressure and frictional resistance of the concrete
- Concrete impermeability and avoiding surface cracks
- Compatible with various kinds of Portland cement and anti-sulfate





## Dosage

The exact dosage is specified with regard to building materials, the mix design requirements and concreting conditions which are determined by laboratory tests. However, a dosage between 4 to 8 % of the cement weight is recommended.

## How to Use

Add the specified amount of Super Silica Gel NR200 to the mixer while the concrete is being made and let the mixing process continue 2 or 3 minutes.

Since the reactions of this gel are done in water, avoid pouring it on dry materials. This gel could be added to ready-made concrete at the location of concreting. To do this, add the gel to the concrete from the terminal opening of truck mixer and let the truck mixer rotate for 90 turns.

## Specifications

Appearance: jelly

Color: light brown

No chlorine

Density:  $1.2 \pm 0.02$

**Shelf Time:** 6 months in its original package out of sunlight

**Freezing point:** around zero degree of Celsius

## Packaging and maintenance:

Keep in 12.5 kg buckets. You can change the packaging if need arises. It must be kept in sealed containers in roofed warehouses out of direct sunlight and freezing conditions.

## Safety points:

Super silica Gel NR 200 contains no toxic or flammable materials; however, if you touch it wash your hands or other parts of the body with water.

