



# SIDDHI VINAYAK CONSTRUCTION CHEMICAL PVT. LTD.

## TECHNICAL DATA SHEET

### CONCRETE GUARD<sup>TM</sup> SUPER DISPERSANT ADMIXTURE

#### DESCRIPTION

Concrete Guard super dispersant admixture is a new generation superplasticizer designed to produce wide range of concrete mixes from conventional to self-consolidating concrete.

#### DOSAGE AND USAGE

The normal recommended dosage is between 0.5% to 1.2% by weight of cementitious material. The optimum dosage of Concrete Guard Concrete Guard super dispersant admixture to meet specific requirement should always be determined by trials using the materials and conditions that will be experienced in use. Stir well before use.

#### ADVANTAGES

- Increase early and ultimate compressive strength with normal setting.
- Produces concrete with high levels of workability without segregation.
- Excellent concrete durability and rheology.
- Lower permeability.
- Excellent handling properties.
- Lowers drying shrinkage and creep.
- Increased productivity.
- Self-curing resulting in elimination of water curing.

#### PACKAGING

- HDPE CANE
- HDPE JAR
- HDPE BARREL

#### SELF LIFE

12 months from date of production if stored properly in undamaged unopened and

original sealed packaging.

## STANDARDS

- IS 9103:1999
- ASTM C 494

## HANDLING AND STORAGE

Store in a moist free, cool and dry conditions. Protect from direct sunlight and frost. Handle the product(s) very carefully during transportation.

## LIMITATIONS

Concrete Guard shall not be added to dry cement. Dosage beyond limits can be used to meet particular mix requirements in consultation with SVCC technical department. Over dosage may cause delay in the setting time and segregation.

## PROPERTIES

- Chemical name: Polymer base
- Appearance: Deep brown viscous liquid
- Specific Gravity:  $1.13 \pm 0.02$  @  $27^{\circ}\text{C}$
- Ph value at  $23^{\circ}\text{C}$ :  $> 6$
- Density:  $\approx 1.13$  Kg/L at  $25^{\circ}\text{C}$
- Solubility: completely soluble in water
- Viscosity (cps): 290 at  $28^{\circ}\text{C}$
- Solid content [% Weight]:  $\sim 50 \pm 1.0\%$
- Chloride Content below 200ppm.

## SAFETY PRECAUTIONS

Concrete Guard is non-toxic and nonflammable. Splashes on eyes has to be immediately washed with plenty of water and seek medical advice.

Wear all PPEs at the time of the application like safety boots, goggles, hand gloves and masks. Avoid contact with skin and eyes. Any direct skin contact with the products should be washed off thoroughly with soap and water.