



# SIDDHI VINAYAK CONSTRUCTION CHEMICAL PVT. LTD.

## TECHNICAL DATA SHEET

# BOND PLUS<sup>TM</sup>

## CONCRETE ADMIXTURE

### DESCRIPTION

Bond plus is a ready-to-use, liquid accelerator admixture. It accelerates initial setting time one to three times faster than normal concrete. It improves workability and strength while hastening the hydration of cement. It makes the mix easier to place and speeds work by shortening the initial set and curing time.

### DOSAGE AND USAGE

The normal recommended dosage of bond plus concrete admixture is between 0.6% to 1.2% by weight of cementitious material. The optimum dosage of Bonding 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

- Aids in strength development.
- Accelerates initial set time one to three times faster than normal concrete.
- Speeds up hydration of cement.
- Increases workability of concrete in colder temperatures.
- Speeds construction due to reduced setting and curing time.
- Reduces bleeding due to the early stiffening produced by acceleration and permits earlier finishing.
- Allows earlier removal of concrete forms or other protection.
- Reduces efflorescence.
- 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

Bond plus 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: Light brownish viscous liquid.
- Specific Gravity:  $1.35 \pm 0.02$  @  $27^{\circ}\text{C}$
- pH (at  $23^{\circ}\text{C}$ ):  $> 6.7$
- Solid content [% Weight]:  $\sim 35 \pm 1.0$
- Density: 1.35 Kg/L at  $25^{\circ}\text{C}$
- Solubility: completely soluble in water
- Viscosity (cps): 180 at  $28^{\circ}\text{C}$
- Chloride Content below 200ppm.

## SAFETY PRECAUTIONS

Bond plus 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