



# **INDIAN SUPER PLAST 400**

***The ART of construction chemicals!***



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**INDIAN SUPER PLAST 400** is an aqueous solution of chemical dispersant combined with a second-generation superplasticizer which increases its beneficial effect on the quality and plasticity of concrete mixes. The product is supplied as a brown liquid instantly dispersible in water.

**INDIAN SUPER PLAST 400** has been specially formulated to give high water reduction up to 25% without loss of workability and produce high-quality concrete of reduced permeability.



## USES:-

→ To produce pump-able ready mix concrete.

→ To produce rheoplastic concrete that can easily be set to densely reinforced concrete elements.

→ To achieve high range water reduction, high workability, and produce a higher grade of concrete.



# Area of Application:-

- High strength and low permeable concrete.

- Complex & heavily reinforced concrete areas.

- High-performance concrete is used for columns, beams, decks, and dams.

- For ready mix concrete, pre-stressed & pre-cast concrete.

- Mass concrete

## BENEFITS:-

- Strength - Provides high early and ultimate compressive strength of concrete.

- Workability-Increase workability and easy compaction hence eliminate honeycombing

- Water reduction - Water reduction up to 25% without affecting workability.





Higher cohesion - Risk of segregation and bleeding minimizes, thus aids the pumping of concrete.

Chloride content- Chloride-free.

Compatibility - Can be used with all types of cement except high alumina cement.

Permeability - Makes concrete less permeable and hence improves the durability.

## TECHNICAL SPECIFICATIONS:-

### Properties

### Results

|                   |                                       |
|-------------------|---------------------------------------|
| Base of Material  | : Naphthalene sulfonated Formaldehyde |
| Appearance        | : Brown colored liquid                |
| Specific Gravity  | : 1.190                               |
| PH                | : 7-8                                 |
| Chloride Content  | : NIL to IS 2645.                     |
| Water reduction % | : Approx. 20-25                       |



## Standard Compliance

Meet the requirement of IS: 91 03 and ASTM-C-494, Type A and Type F.

## APPLICATION INSTRUCTIONS:-

### 1 DOSAGE

The optimum dosage is best determined by site trials with concrete mix design which enables the effects of workability, strength or cement reduction to be measured.

### 2 NORMAL DOSAGE

250 ml to 1 Ltr / 50 kg of cement. Higher dosage may require for special application depending upon site requirement.



## PACKAGING

20 LTRS and 220 LTRS.



## SHELF LIFE & STORAGE

Shelf life is one year from the date of manufacturing. Store the material in cool and dry place.



## HEALTH & SAFETY

INDIAN SUPER PLAST 400 is not hazardous. It should not be swallowed or allowed to come into contact with the skin and eyes. Protective gloves, Nose mask and goggles should be worn. Contact with skin for long tenure should be avoided. In case of contact with the eyes, it should be rinsed immediately with plenty of water and medical advice sought immediately.