



# STAR 333

## CHLORIDE FREE ANTICORROSIVE WATER REDUCING ADMIXTURE WITH FINISHING AID

### DESCRIPTION

STAR – 333 is a new generation superplasticiser specifically designed for use in concrete floors and other similar structures where smooth and uniform finishing required. STAR – 333 is based on polymer.

STAR – 333 does not contain any added chloride ions ensuring that the product does not support corrosion of reinforcing steel. Being anti corrosive in nature, helps concrete and steel to prevent corrosion.

### ADVANTAGES

- Superior finishing for slab work and off-form surfaces.
- Normal setting characteristics under cool conditions allowing earlier finishing of slabs.
- Reduced segregation particularly in lean mixes and high slump concrete.
- Improved workability.
- Reduced water content for a given workability In the hardened concrete:
- No added chlorides, conforms to the most stringent chloride ion limits, will not initiate or promote the corrosion of reinforcing steel.
- Increased strength - compressive, flexural and bond (concrete to steel).
- Increased density and durability.
- Reduced permeability - improved water tightness.
- Reduced cracking.
- Compatibility with air entraining agents.

### USES

- STAR – 333 can be used in all types of concrete requiring enhanced finishability.
- STAR – 333 reduces rate of bleeding.
- To produce concrete where non-chloride water reducing admixture is required.
- STAR – 333 improves the performance of pumped concrete, shotcrete and conventionally placed concrete.
- Use in white or coloured concrete & architectural concrete.
- Concrete placed on galvanised steel floor and roof systems, which are left in place.

### TYPICAL PROPERTIES

|                  |                            |
|------------------|----------------------------|
| Appearance       | : yellowish Brown liquid   |
| Specific gravity | : 1.18-1.20 kg/lit.at 20°C |
| Chloride content | : Nil to IS : 456          |
| Air entrainment  | : Less than 2%             |
| PH by ph meter   | : 7.5 -8                   |

### STANDARDS COMPLIANCE

ASTM C-494 Type C  
EN 934-2: T6 & T7  
IS 9103: 1999  
IS 456

### COMPATIBILITY

STAR – 333 is suitable for use with all types of Portland cements and combination materials such as fly ash, PFA, GGBS limestone fines and micro silica.  
STAR – 333 is compatible to Star's all other admixtures, superplasticisers and air entraining agents.

### APPLICATION INSTRUCTIONS

#### Dosage

The optimum dosage determined by site trails with a specific concrete mix which enables the effects of workability, strength gain and setting time to be measured.

The rate of addition of STAR – 333 is typical between 400 to 650 ml per 100 kg cement.

#### Mixing

STAR – 333 should be stirred before use.  
STAR – 333 is a ready-to-use liquid, which is dispensed into the concrete together with the mixing water.

The dispersing of admixture shall be more uniform if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. The addition of STAR – 333 to dry aggregate or cement is not recommended.

**CURING:**

Normal curing methods such as water pounding/ spray or wet Hessian must be used.

**Mix Design:**

STAR has a dedicated advisory service on concrete mix Design and can be controlled if assistance is required

**STORAGE**

This product has a minimum shelf life of 12 month when stored under normal temperature. It should be protected from extreme temperatures. It should be protected from extreme temperature and preferably stored in shade.

**PRECAUTIONS**

STAR – 333 is safe, non-toxic, and eco-friendly and presents no health hazard. As with all chemicals, caution should always be exercised. Protective clothing such as gloves and goggles

**INHALATION:** Inhalation of vapor or mist should be avoided. Symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air, and, if needed immediately start artificial respiration. Give oxygen if breathing is labored. Get emergency

**EYE CONTACT:** Flush eyes with water for 15 minutes and call for medical help.

**INGESTION:** causes nausea, vomiting, and loss of consciousness. If accidentally swallowed do not induce

**SKIN CONTACT:** Flush with water or soap and water until all traces have been removed. Seek medical attention if required.

Technical Support:



Polymertech UK Ltd.  
& CN-07468396  
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**Marketed By:**



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(ISO 9001:2000)