



STAR 315

ANTICORROSSIVE, WATER REDUCING, HIGH PERFORMANCE, PLASTICISING ADMIXTURE

DESCRIPTION

STAR – 315 is a high performance water reducing, superplasticising admixture for use in concrete and Portland cement.

STAR – 315 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

- Provide specified strength grades at comparatively lower cement content.
- It reduce water content, improves compressive Strength.
- Enhances durability through the production of low permeability concrete
- Minimises segregation and bleeding and produce a dense, close textured surface, improving durability.
- Chloride free, safe for use in pre-stressed and reinforced concrete
- Anticorrosive in nature, neither initiate nor promote corrosion.
- Allows workability to be increased without adding extra water

USES

It improves workability and provides early strength gain of Portland cement concrete and mortar mixes without the introduction of chloride.

Acts as a plasticiser, so gives significant increases in both ultimate and early strengths. Typical applications include pre-cast concrete, concrete placed in cold weather, concrete for repairs, mortars for brickwork.

TYPICAL PROPERTIES

Appearance	: Brown liquid
Specific gravity	: 1.18 kg/lit.at 20°C
Chloride content	: Nil to IS : 456
Air entrainment	: Less than 1%
PH by ph meter	: 8

STANDARDS COMPLIANCE

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

COMPATIBILITY

STAR – 315 is compatible with most admixtures used in the production of quality concrete including normal, other mid-range water-reducing admixtures, accelerators, retarders.

The effect of STAR – 315 is dependent upon the cement properties and the type of plasticizers used in the concrete mix. The setting time and early strength gain may be affected if strong retarders are used in the mix. STAR – 315 admixture will neither initiate nor promote corrosion of reinforcing steel, pre-stressed concrete or concrete placed on galvanized steel floor and roof systems.

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 – 315 is typical between 200 ml to 500 ml per 100 kg cement.

Mixing

STAR – 315 should be stirred before use.

STAR – 315 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 – 315 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 – 315 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
United Kingdom

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(ISO 9001:2000)