



STAR 316

POREBLOCKING, ANTICORROSSIVE
CONCRETE ADMIXTURE

DESCRIPTION

STAR – 316 is a high performance porosity reducing, hydrophobic, anticorrosive admixture for use in concrete and Portland cement to produce waterproof concrete. STAR – 316 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

- STAR – 316 reduces porosity.
- STAR – 316 reduces permeability.
- STAR – 316 reduces diffusion coefficient.
- STAR – 316 increases water resistance and corrosion resistance.
- STAR – 316 is chloride free. Ideal for concrete containing embedded steel.
- STAR – 316 easily dispersed throughout concrete mix.
- STAR – 316 is Anticorrosive in nature, neither initiates nor promotes corrosion.
- Allows workability to be increased without adding extra water

USES

- STAR – 316 helps to produce water resistant concrete.
- To produce concrete for liquid retaining / excluding structures.
- To produce concrete for aggressive exposure classes.

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 – 316 is suitable for use with all types of Portland cements and combination materials such as fly ash, PFA, GGBS limestone fines and micro silica.

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 – 316 is typical between 1-3 % (by weight) per 100 kg cement.

Mixing

STAR – 316 should be stirred before use.

STAR – 316 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 – 316 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 – 316 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)