



STAR 327

ANTICORROSIVE POLYMERIC SUPER PLASTICISER/DISPERSING AGENT

DESCRIPTION

STAR – 327 is a new generation superplasticiser specifically designed for use in concrete floors. STAR – 327 is based on polymer and developed by using nano technology. STAR – 327 has excellent dispersing action.

STAR – 327 has the effects of Steric and Electrostatic repulsion that helps in producing a product, which is more effective than conventional superplasticisers/water reducers.

STAR – 327 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 – 327 is designed to provide excellent and consistent dispersion properties when added to concrete, in dry batched concrete or to ready-mix concrete mixers on site.
- STAR – 327 is a highly efficient superplasticiser.
- STAR – 327 provides increased workability of concretes at low dosage rates.
- STAR – 327 improves cohesion and consistent set at high workability, save time.
- STAR – 327 is chloride and formaldehyde free.

USES

- STAR – 327 facilitate ease of placing and finishing with modern concrete industrial floor laying equipment and technology.
- STAR – 327 helps to produce workable flooring concrete, particularly those containing fibres and/or micro silica.
- STAR – 327 improves finishing and floating times.
- STAR – 327 enhance compressive strength and durability characteristics of concrete.

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 – 327 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 – 327 is typical between 500 to 1500 ml per 100 kg cement.

Mixing

STAR – 327 should be stirred before use. STAR – 327 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 – 327 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 – 327 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)