

UNIPLAST 15

SET RETARDING, WATER REDUCING & PLASTICIZING ADMIXTURE

UCA-LA-03-0722

DESCRIPTION

UNIPLAST 15 is a chloride free, plasticising admixture based on Sulphonated Naphthalene Polymer . It is supplied as a brown solution which is instantly dispersible in water.

UNIPLAST 15 produces more cohesive & workable concrete at constant water: cement ratio with slightly improved strength or can give higher strengths at same workability at the same water: cement ratio.

USES

- ❖ UNIPLAST 15 can provide pumpable concrete.
- ❖ UNIPLAST 15 provides excellent workability even at low water/cement ratio.
- ❖ UNIPLAST 15 produce high strength, high grade concrete by substantial reduction in water resulting in low permeability and high early strength.

ADVANTAGES

- **Increased workability:** Reduces placing time, labour and equipment.
- **High strength concrete:** Water reduction gives higher strengths without cement increase or workability loss.
- **Workability Retention:** Excellent workability retention.
- **Reduced permeability:** Reduction of water reduces porosity giving improved water impermeability.
- **Surface finish:** Better dispersion of cement particles and increased cohesion minimises segregation and bleeding and gives improved surface finish.
- **Improved pumpability:** Line friction is reduced by increasing workability and cohesion.
- **Chloride free:** Safe in reinforced concrete.

TYPICAL PROPERTIES

CALCIUM CHLORIDE CONTENT	None as per EN 934-1:2008
SPECIFIC GRAVITY	1.18 – 1.22 g/cc @ 25 °C.
DURABILITY	Water reduction gives increase in density and water impermeability which improves durability.
CEMENT COMPATABILITY	Compatible with sulfate resisting and other Portland cements and high alumina cements
PACKAGING	1000 LITRE IBC & BULK TANKER

STANDARDS

UNIPLAST 15 complies with **BS EN 934-2:2012, BS 5075 and ASTM C-494 Type A & F/ ASTM C-494 M.**

INSTRUCTIONS FOR USE

DOSAGE

The optimum dosage for UNIPLAST 15 should be determined by site trials with the particular concrete mix under prevailing ambient condition.

We provide **technical support service** on mix design, admixture selection, evaluation of trials, dispensing equipment etc. Please contact the Technical department in these cases.

As a guide the dosage is normally

0.80 - 1.80 litres/100 kg cement for flowing concrete.

1.3 -2.50 litres/100 kg cement for high strength concrete.

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OVERDOSING

An over dose of double the maximum recommended dose of UNIPLAST 15 will result in very high workability, possible severe retardation and segregation. Otherwise the ultimate compressive strength of the concrete will not be impaired, if properly cured. The overdosing effect will be exaggerated when used with sulphate resisting cement.

CURING

As with all structural concrete normal curing methods apply.

CLEANING

Spillages of UNIPLAST 15 can be removed with water.

STORAGE & SHELF LIFE

UNIPLAST 15 should be protected from extremes of temperature. It has a shelf life of 12 months from the date of manufacturing. Store in a dry & shaded area in original packaging.

SAFETY PRECAUTIONS

UNIPLAST 15 is nontoxic. Any splashes to the skin should be washed immediately with water. Splashes to the eyes should be washed immediately with water and medical advice should be sought.

Fire: UNIPLAST 15 is non-flammable.

LIMITATION OF LIABILITY

This information is based on our current level of knowledge. It is given in a good faith but it is not intended to guarantee any particular properties. The users must satisfy themselves that there are no circumstances requiring additional information or precautions or the verification of details given herein.

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