

UNIPLAST 20

CONCRETE SUPERPLASTICIZER, HIGH RANGE WATER REDUCING & SET RETARDING
UCA-LA-01-0722

DESCRIPTION

UNIPLAST 20 is based on a blend of polymers. It is a brown liquid instantly dispersible in water.

UNIPLAST 20 will give flowable concrete or high strength concrete with extended workability.

USES

- ❖ UNIPLAST 20 can provide pumpable concrete.
- ❖ It can provide good water reduction to achieve permeability and high early strength.
- ❖ Gives extended workability which is useful when concrete is transported in ready mix trucks, for avoiding cold joints in concrete & Concrete Blocks.

ADVANTAGES

▪ **Increased workability:** Reduces placing time, labour and equipment.

▪ **High strength concrete:** Water reduction gives higher strengths without cement increase or workability loss

▪ **Extended workability:** Some set retardation gives longer working times which are useful for truck transport and for avoiding cold joints between concrete pours.

▪ **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 20 complies with **BS EN 934-2:2012, BS 5075, ASTM C-494 Type G & D & ASTM C1017.**

INSTRUCTIONS FOR USE

DOSAGE

The optimum dosage for UNIPLAST 20 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.

If UNIPLAST 20 is to be used in conjunction with other admixtures, kindly conduct in-house trials to determine optimum dosage and compatibility.

As a guide the dosage is normally 0.60 – 2.0 % Volume by weight of cement. For flowing concrete 1.6 - 2.0 litres/100 kg cement for high strength concrete.

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OVERDOSING

An over dose of double the maximum recommended dose of UNIPLAST 20 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 20 can be removed with water.

STORAGE & SHELF LIFE

UNIPLAST 20 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 20 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 20 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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