

UNIPLAST R1

PLASTICIZING & SET RETARDING ADMIXTURE

UCA-LA-02-0722

DESCRIPTION

UNIPLAST R1 is supplied as a brown chloride free liquid which instantly disperses in water.

The retarding properties of UNIPLAST R1 are beneficial in concrete where high cement content or high temperatures are involved. Cold joints in continuous concrete pours are avoided and the use of lower cement content mixes will reduce heat of hydration.

USES

- ❖ UNIPLAST R1 is used to increase the workability and or strength of concrete of a given cement content to improve its initial and final setting
- ❖ Is particularly suitable for cohesive and cement rich mixes.

ADVANTAGES

- Set retardation allows extra placing time for larger pours or at elevated temperatures.
- Increased workability facilitates placing and compaction.
- High strengths without increase in cement content or reduction in workability.

TYPICAL PROPERTIES

CALCIUM CHLORIDE CONTENT	None as per EN 934-1:2008
SPECIFIC GRAVITY	1.01 – 1.05 g/cc @ 25 °C.
PACKAGING	1000 LITRE IBC & BULK TANKER. Other sizes available on request

CEMENT COMPATABILITY

UNIPLAST R1 is generally compatible with other Unichem Chemicals & Asphalt admixtures but it is recommended that all admixtures to be added to concrete separately. UNIPLAST R1 can be used with all types of Portland cements. For advice on special cements consult Unichem Chemicals & Asphalt Technical Department.

STANDARDS

UNIPLAST R1 complies with **BS EN 934-2:2012, BS 5075 Part 1** and with ASTM C-494 Type D

INSTRUCTIONS FOR USE

DOSAGE

The optimum dosage for UNIPLAST R1 should be determined by site trials with the particular concrete mix under prevailing ambient condition.

As a guide: The dosage of UNIPLAST R 1 normally varies between 0.4 to 1.5 liters per 100 kg cement, depending on the retardation required.

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

OVERDOSING

An overdose of UNIPLAST R1 will result in very high workability, 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.

UNIPLAST R1

PLASTICIZING & SET RETARDING ADMIXTURE

UCA-LA-02-0722

CURING

It is essential to prevent concrete which has been retarded from drying out. Normal curing methods such as water spray, wet hessian or a curing membrane should be used.

CLEANING

Spillages of UNIPLAST R1 can be removed with water

STORAGE & SHELF LIFE

UNIPLAST R1 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 R1 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 R1 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.

P.O BOX 80071
BUILDING 1928
ROAD 5146, BLOCK 951
ASKAR, KINGDOM OF BAHRAIN

PHONE : +973 17830830
info@unichembahrain.com
www.unichembahrain.com
CR No. 51803