

UNIPLAST R 1

Plasticizing and Retarding Admixture

Description

UNIPLAST R 1 is supplied as a brown chloride free liquid which instantly disperses in water.

The retarding properties of UNIPLAST R 1 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.

Use

UNIPLAST R 1 is a plasticizing retarding admixture which is used to increase the workability and or strength of concrete of a given cement content to improve its initial and final setting

UNIPLAST R 1 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

Chloride content: None as per EN 934-1:2008

Specific Gravity: 1.15 ± 0.02 at 20°C.

Air entrainment: UNIX PLAST R 1 acts as a mild air detainer.

Compatibility: UNIPLAST R 1 is generally compatible with other Concrete & Asphalt Technology admixtures but it is recommended that all admixtures to be added to concrete separately. UNIPLAST R 1 can be used with all types of Portland cements. For advice on special cements consult Concrete & Asphalt Technology Technical Department.

Standards

UNIPLAST R 1 complies with **BS 5075** Part 1 and with ASTM C-494 Type D.

Direction for use

Dosage

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

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 R 1 can be removed with water.

UNIPLAST R 1

Plasticizing and Retarding Admixture

UNIPLAST R 1

Packaging

UNIPLAST R 1 is supplied in 20 and 210 liters HDPE drums.

Storage and Shelf life

UNIPLAST R 1 should be protected from extremes of temperature. Should the material become frozen, it must be completely thawed and thoroughly mixed before use.

UNIPLAST R 1 has a minimum shelf life of 12 months from manufacturing date, for original sealed packaging provided temperature is kept within the range 5° C to 30° C.

Technical Service

Unichem Chemicals & Asphalt W.L.L. provides technical support service on mix design, admixture selection, evaluation of trials, dispensing equipment etc. Please contact the Technical department in these cases.

Safety precautions

UNIPLAST R 1 is non-toxic. 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 R 1 is non-flammable.