



UCOPLAST-RP-350

CA-113

Retarding Plasticiser

Product

UCOPLAST-RP-350 is a set retarding water reducing admixture for concrete complies with ASTM C-494 type B and BS 5075 Part : 1

Composition

UCOPLAST-RP-350 is based on selected non-fermented blend of ligno and polyhydroxy carboxylic acid derivatives

Description

UCOPLAST-RP-350 is an admixture capable of acting not only as Plasticiser but which are also capable of delay setting time of concrete ensures that the cement is used more efficiently to provide workability or increased strength at reduce water content.

Action

UCOPLAST-RP-350 acts as both a set retarder and as a plasticiser the plasticizing action of UCOPLAST-RP-350 may be used in several ways.

1. If no adjustment is made to water cement ratio a high workability concrete will be obtain which is useful for difficult pours.
2. UCOPLAST-RP-350 is absorbed on to the surface of C A and C S of cement that are responsible for early setting and early strength effect respectively. Thus slowing down early setting / stiffening effects in hydrating cementitious system. This effectively extends period of workability / plasticizing of the concrete allows delay in the setting time and modifies the hydration to produce optimum crystal growth with fewer pores giving higher strength reduced permeability and greater durability.

Technical Data

Form Liquid
Colour Brown
Cl Content Nil
pH 7.5 ± 1
Air entertainment <2%
Specific Gravity..... 1.20

Advantage

- Allows extension of setting time
- Avoid cold Joints
- Improved Structural Continuity
- Improved workability and longer placing time in case of ready mix concrete.
- Improved Strength and Durability
- Lower Shrinkage and Permeability
- Improved Placing and Finishing
- Chloride – Free
- Controlled predictable retardation of setting time.
- Improved compressive, flexural and tensile strength of concrete at all ages.
- Mixes more responsive to vibration.
- Improves cohesion of mix-lessening segregation and bleed water effects.
- Cement saving can be obtained by maintaining original strength & workability

Purpose

To retard the setting time of concrete with water reduction for a specified workability

Where to Use

- For Raft foundation, slip form structure tunnels etc. To avoid cold joints.
- For difficult pore and congested Steel work
- In high summer, warmer climates
- Ready mixed concrete for long hauls / hot weather concreting
- Pumped concrete - to offset problems due to break down delays

Method of Use

UCOPLAST-RP-350 should be added with the ganging water in sufficient time to ensure that it is distributed evenly through out the entire batch.

Dosage

150 ml – 300 ml / 50 kg. Cement bag.
Optimum dosage should be determined by site trials.

Packing

5, 10, 50, 100, 210 Litre drums or bulk delivery

Health & Safety

UCOPLAST-RP-350 is an industrial chemical mildly alkaline prolonged contact with skin should be avoided.

Retardation Observation

With no water reduction 3 hrs. over control with water Reduction = 2 hrs. over control

Storage

- UCOPLAST-RP-350 has a shelf life of 12 months from the date of manufacturing, if stored as per manufacturer's instructions & in manufacturer's original unopened packing.
- Keep away from direct sunlight and store in dry & shade.
- Protect from freezing and moisture.

Handling Precaution

- UCOPLAST-RP-350 is an industrial chemical; required handling precautions should be followed.
- UCOPLAST-RP-350 is non-flammable and doesn't contain any flammable ingredient.
- UCOPLAST-RP-350 is non-hazardous, however inhalation of its dust particles should be avoided. Use of facemask is recommended.
- Prolonged contact with skin should be avoided. Use rubber gloves and boots, when working overhead, goggles should be worn.
- Contact with eye should be avoided. If in contact with eye, wash with water and take medical advice immediately.

Important Note:

All products should be used in accordance with manufacturers instructions. Every effort is made to ensure that the information is reliable, however we do not accept any responsibility for any work carried out with our material(s) as we have no control over the method(s) used for application, site conditions, weather conditions, etc.

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