



UCOPLAST-WR

CA-111

Water Reducer Concrete Plasticiser

Product

UCOPLAST-WR is a versatile water reducing admixture for concrete complies with IS 9103 - 1999, BS 5075 : 1982, Part I, ASTM C-494 Type A

Composition

UCOPLAST-WR is a Chloride - free brown liquid based on processed lignosulfonates.

Description

UCOPLAST-WR is a low cost highly efficient Plasticiser based on processed lignosulfonates. It is chloride free. It increases workability of concrete mixes by its powerful deflocculating and dispersing effect on the cement particles. This increase in workability can be utilized to produce high workability concrete or to enable significant reductions in the free water contents.

Properties

UCOPLAST-WR can be incorporated in concrete to give following benefits.

1. Increased workability
UCOPLAST-WR improves workability without increase water content to produce mixes which are more readily placed and compacted to save time and labour and also produces denser concrete with reduced permeability.
2. Water Reducer
By keeping the workability of concrete mix the same a significant reduction in the quantity of gauging water added can be achieved by the incorporation of UCOPLAST-WR giving higher strength and more durable concrete.
3. Cement Saver
It is possible to produce lower cost corresponding mixes at lower cement contents with UCOPLAST-WR (5 to10 % reduction for nominal 300 kg. / m³ mix)

Technical Data

FormLiquid
ColourBrown
pH7.5
Cl- ContentNil

Advantages

- Increased workability
- Improved durability
- Allows easier placing and compaction
- Gives higher strength
- Reduced drying shrinkage and permeability
- Lower water required for given workability
- Chloride - free
- Cost – effective

Purpose

- To Produce high Workability
- To increase strength of concrete
- To Produce self - Compacting concrete

Where To Use

- Mass Concrete
- Reinforced Concrete
- Precast Concrete
- Floor laying
- Pump Concrete

Directions for Use

UCOPLAST-WR should be added preferably with the gauging water. The concrete should be then mixed for sufficient time to ensure through dispersion.

The dosage rate is 100 ml to 250 ml / 50 KG cement The Optimum dosage should be determined by site trials.

Packing

5, 10, 50, 100 and 210 litre drums or bulk delivery.

Dosage

100 ml to 250 ml / 50 KG cement

Over Dosing

Dosing up to 300 ml UCOPLAST-WR has no deleterious effect but above this level some retardation of the cure and reduction in strength will occur.

Typical Strength/Workability Results Compared with plain mix concrete

Test Age	Compressive Strength	Flexural Strength
3 Days	120 %	110 %
7 Days	116 %	108 %
28 Days	114 %	103 %

Mix	Water/Cement Ratio	Dosage	Slump in mm
Control	0.54	Nil	55
UCOPLAST-WR	0.52	150 ml	120
UCOPLAST-WR	0.52	150 ml	60

Storage

- UCOPLAST-WR 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-WR is an industrial chemical; required handling precautions should be followed.

- UCOPLAST-WR is non-flammable and doesn't contain any flammable ingredient.
- UCOPLAST-WR 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 manufacturer's 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.

**INNOVATIVE
MARKETING**

Works:

Plot No. 16, GIDC Industrial Estate, Pardi – 396125, Dist. Valsad, GJ, IND
+91 99250 35219 | info@innovativemarketing.in | www.innovativemarketing.in

Marketed by:



UCLID TECHNOLOGY LTD.
(CONSTRUCTION CHEMICAL DIVISION)

www.uclidtechnology.com