



UCLID TECHNOLOGY LTD.

(CONSTRUCTION CHEMICAL DIVISION)

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PRODUCT SUMMARY

www.uclidtechnology.com

UCOPLAST - WR

CA-111

Water Reducer Concrete Plasticiser

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

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.

Purpose

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

Dosage

100 ml to 250 ml / 50 kg. Cement.

Packing

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

Where To Use

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

Our Sole Distributor :

Innovative MARKETING

Shop No. 1, Avni Complex,
G.I.D.C., Estate, Pardi-396 125, Dist. Valsad, Gujarat.
Phone : (0260) 373551
E-mail : inn_marketing@yahoo.co.in

Our Dealer :

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Description

UCOPLAST - WR is a low cost highly efficient Platiciser based on processed lignosulfonates. It is chloride free. It increases workability of concrete mixes by its powerful defloculating and dispersing effect on the cement particles. This increase in workability can be utilised 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 to 10 % reduction for nominal 300 kg. / m³ mix)

Technical Data

FormLiquid
ColourBrown
pH7.5
Cl ContentNil

Directions for Use

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

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

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.

Storage Life

Storage life of UCOPLAST -WR is one year in manufacturer's sealed container. Protect from frost and direct sunlight.

Handling Precautions

UCOPLAST - WR is an industrial chemical and ingestion should be avoided. Any splashes to the eyes washed off with clean water and medical advice sought.

Typical Strength/Workability Results Compared with plain mix concrete

Test Age	Compressive Strength	Flexural Strength	Mix	Water/Cement Ratio	Dosage	Slump in mm
3 days	120%	110%	Control	0.54	Nil	55
7 days	116%	108%	Ucoplast -WR	0.54	150 ml	120
28 days	114%	103%	Ucoplast -WR	0.52	150 ml	60

Important Note :-

All product should be used in accordance with manufactures instructions. Every effort is made to ensure that the information is reliable, we cannot accept responsibility for work carried out with our materials as we have no control over methods of application, site conditions etc.