



UCLID TECHNOLOGY LTD.

(CONSTRUCTION CHEMICAL DIVISION)

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PRODUCT SUMMARY

www.uclidtechnology.com

UCOPLAST - SP - 450

CA-112

SUPER PLASTICISER

Advantage

- * Imparts extreme fluidity.
- * Allows water reduction (20-30%)
- * Higher early & ultimate strength.
- * Rapid placing with no vibration.
- * Improved surface finish, cohesion.
- * Reduced shrinkage & cracks
Chloride free.
- * Produce denser more durable concrete
giving better protection to steel against
corrosion.
- * Chloride free safe in prestressed concrete
& with sulphate resisting cement
aggregate.

Product

Ucoplast – SP 450 high range water reducing superplasticiser for concrete, mortars provide very high water reduction complies ASTM C-494 type-F BS 5075 part 3 IS 9103 1979

Composition

Ucoplast –SP 450 is a brown liquid based on selected synthetic sulphonated naphthalene formaldehyde condensates.

Purpose

To impart very high workability without the addition of extra water or to enable large water reductions to be made for higher early & ultimate strength.

Dosage

300 ml to 600 ml/ 50 Kg. Cement.
Optimum dosage should be determined by site trials

Packing

5,10,50,100,210 Ltr Drums or Bulk delivery.

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 – SP 450 is a powerful superplasticiser dispersing agent based on modified sulphonated naphthalene formaldehyde condensate.

Benefit

1. Flowable concrete

Ucoplast –SP-450 greatly produce flowing concrete with higher strength in comparison of normal strength this flowable concrete allows rapid placing of concrete with little or no vibration and makes the concrete denser for increased durability

2. High early strength

Ucoplast –SP –450 gives high early strength if advantage of water reduction is taken up to 25 % significant increase in ultimate strength improved surface finish, improved water tightness no adverse shrinkage effect specially suitable for congested & heavily reinforce concrete.

Where to use

- * Precast & prestressed concrete
- * Floor slabs, girders
- * Foundation
- * Walls, columns, beams and ceilings
- * Pump concrete, mass concrete
- * Congested Reinforcement concrete
- * Low water/ cement concrete
- * Ready mixed concrete

Test Results

M-30 Grade Concrete

Typical strength workability result

Test Age	Water/Cement Ratio	Compressive N/mm ²		
		1 Day	7 Day	28 Day
Control	0.56	11.0	30.0	42.5
Ucoplast SP-450 (400 ml.)	0.46	16.5	42.0	56.0

Technical Data

FormLiquid
ColourBrown
Cl content.....Nil
PH.....7.5 + 1
Air entrainment.....1% additional air
Specific Gravity..... 1.220

Method of use

Ucoplast – SP 450 is added to part of the mixing (Guaging) water. The dosage rate is 300 ml – 600 ml / 50 kg.cement bags. Optimum dosage should be determined by site trials.

Overdosing

Overdosing should be avoided since it may produce a concrete which may to segregate would retard setting of concrete.

Storage Life

Ucoplast – SP 450 has a shelf life of one year in manufacturer's unopened containers protect from frost & direct sunlight

Health & Safety

Ucoplast-SP450 is an industrial chemical, ingestion should be avoided.

Test	Water/Cement Ratio	Slump in mm
Plain	0.56	50
600 ml Ucoplast SP-450	0.56	150
600 ml Ucoplast SP-450	0.45	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.