

**Redwop**<sup>®</sup>  
INNOVATING FOR A BETTER WORLD

**CONCRETE ADMIXTURE**





## REDBRAWN 400

PC based superplasticizer

### Description

**REDBRAWN 400** differentiated from conventional superplasticisers in that it is based on a unique carboxylic ether polymer with long lateral chains. This greatly improves cement dispersion. At the start of the mixing process an electrostatic dispersion occurs but the cement particle's capacity to separate and disperse. This mechanism considerably reduces the water demand in flow able concrete. REDBRAWN 400 combines properties of water reduction and workability retention. It allows the production of high performance concrete and/or concrete with high workability. It is a strong super- plasticizer allowing production of consistent concrete properties around the required dosage.

### Advantages

- Increased early and ultimate compressive strengths
- Increased flexural strength
- Higher E modulus
- Improved adhesion to reinforcing and pre stressing steel
- Better resistance to carbonation Lower permeability
- Better resistance to aggressive atmospheric condition
- Reduced shrinkage and creep
- Increased durability

### Uses

- Self-compacting concrete
- Pumpable concrete
- Concrete requiring long workability retention
- High performance concrete

### Confirm standard

- IS 9103:1999 (Certificate No. :- CM/L-7600149811)

### Compliance standard

- BS: 5075:1985 part-3  
ASTM C 494M Type 'F' (As a high range water reducing admixture) .



## Technical Information

PROPERTIES	RESULTS
Appearance	Reddish Brown Liquid
Sp. Gravity	1.08 to 1.10 N/mm <sup>2</sup>
pH Value	6 to 8

## Method of Application

- The optimum dosage of REDBRAWN 400 to meet specific requirements should be determined by trials using the materials and conditions that will be experienced in use. The normal dosage range is between 0.6 to 1 % of cement.

**This in turn leads to a series of associated benefits**

- **Enhanced durability:** It reduces the permeability and increases the resistance to weathering and enhances the durability.
- **Workability:** It can be used to produce flowing concrete that requires no compaction and produce high workable mix without segregation.
- **Compressive strength:** It improves dispersion of cement grains and cause shortening of the stiffening time and the early strength can be enhanced at a constant w/c ratio.

## Over dosing

- Over dosage may cause delay in the setting time.

## Curing

- Normal good curing practice should be adopted.

## Packaging

- REDBRAWN 400 is supplied in 50 & 220 Kg drum

## Storage

- Minimum of 12 months shelf-life if kept under room temperature (i.e. 27°C).

## For selection of admixture

- As per your project please visit our smart store in [www.redwop.net](http://www.redwop.net)

**Note:** All technical data stated in this product data sheet are based on laboratory tests. Actual measured data may vary according to trails and quality of material availability.

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