

Redwop[®]
INNOVATING FOR A BETTER WORLD

CONCRETE ADMIXTURE



PROCRETE R80

High performance admixture for Ultra high strength concrete, based on Polycarboxylic technology

Description

PROCRETE R80 is a high performance superplasticiser intended for ultra-high strength concrete having very low water cement ratio and long workability retention are required. It is a unique combination of the latest generation superplasticisers, based on a polycarboxylic ether polymer with long lateral chains. Upon mixing with concrete, occurrence of electrostatic dispersion will allow cement particles to separate each other. This mechanism considerably reduces the water demand in flowable concrete.

Uses

- Self-compacting concrete
- Pumped concrete to greater heights
- Concrete requiring long workability retention
- For Ultra High Strength Concrete
- High performance concrete. Slender structural sections
- Self-compacting concrete
- Pumpable concrete
- Concrete requiring long workability retention
- High performance concrete
- Low viscosity suitable for pumping of different grades of concrete to higher floors
- Higher E modulus
- Improved adhesion to reinforcing and prestressing steel
- Better resistance to carbonation, Compatible with all types of cement except high alumina cement
- Compatible with cement replacement such as Fly ash, GGBS and microsilica
- Reduced shrinkage and creep
- Increased durability

Confirm standard

- IS 9103:1999

Compliance standard

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

Technical Information

PROPERTIES	RESULTS
Appearance	Light Brown Liquid
Volumetric mass @ 20 Deg. C	1.100 ± 0.02 kg/litre
pH Value	Min 6
Alkali content	Typically less than 1.5 g Na ₂ O equivalent / litre of admixture.

Notes:

The uniformity parameters like specific gravity, pH, chloride content etc. will vary for specific customer requirements and mix design. Please refer our MTC issued for specific product configuration for measuring our product parameters that will be constantly and consistently administered.

Method of Application

- **Dosage** :The optimum dosage of Procrete R80 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. The normal dosage range is between 0.3 to 2.0 kg/100 kg of cementitious material.
- **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

- PROCRETE R80 is supplied in 50 & 250 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

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.

REDWOP CHEMICALS PVT. LTD.

Head office: 2nd Floor, Pearl plaza Complex, B/S GT Sheth School, Near KKV Hall, 150ft Ring Road, Rajkot- Pin.360005 Gujarat, India.

✉ info@redwop.net

🌐 www.redwop.net

☎ +91 97246 55551

☎ +91 281 2576664