



BROCRETE™ C 800

BENEFITS

- Reduced thermal peaks
- Improved workability: Easier quicker in placing and compaction.
- Reduced segregation: Increase cohesion minimizes segregation and bleeding
- Improved surface finish
- Resistance to segregation even at high workability
- Extended setting with longer workability
- Higher ultimate strength
- Reduced permeability and improved durability
- Increased ease in finishing concrete

DISCRIPTION

BROCRETE C 800 is an admixture of a new generation based on modified polycarboxylic ether. The product has been primarily developed for applications in high performance concrete where the highest durability and performance is required.

USES

Ideal with Lower and higher grade of concrete mix prestressed and precast work, pavement concrete, exposed slab concrete, mass concrete pours.

To produced high workability concrete repairing little or no vibration during placing.

It Can be used to all types of cements.

PROPERTIES

BROCRETE C 800 complies with ASTM C-494 Type G

Appearance : Amber colored clear liquid

Chloride Content : <0.2 % as per IS: 9103:1999

Ph : 6 to 8.5

COMPATIBILITY

With cements : **BROCRETE C 800** can be used with all types of Portland Cements, including sulphate resisting cements. It is compatible with concrete containing pulverised fuel ash (PFA), ground granulated blast furnace slag (GGBFS) and micro silica(MS).

With other admixtures : As with all concrete admixtures, **BROCRETE C 800** should not be pre-mixed with other admixtures or chemicals. The product is engineered to be used with Fairmate superplasticisers, but must be added separately.

APPLICATION

BROCRETE C 800 is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticising effect and water reduction are higher if the admixture is added to the damp concrete after 60 to 80% of the mixing water has been added. The addition of **BROCRETE C 800** to dry aggregate or cement is not recommended.

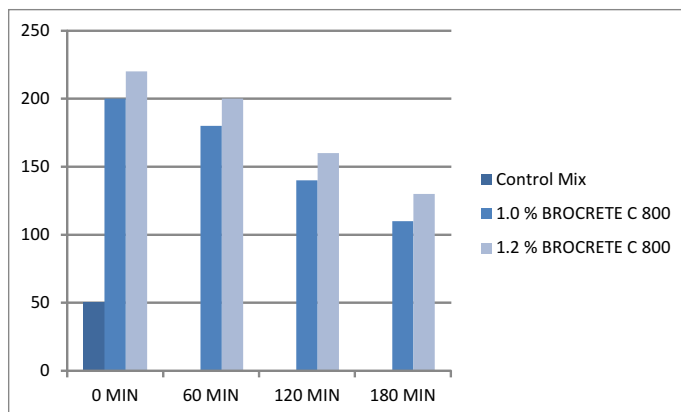
TYPICAL RESULT WITH USE OF BROCRETE C 800 IN M-25 GRADE OF CONCRETE

W/C RATIO : 0.42

53 Grade Ultratech Cement

Sand Zone-II

SR	0 Min	60 Min	120 Min	180 Min
Control Mix	50			
1.0% BROCRETE C 800	200	180	140	110
1.2% BROCRETE C 800	220	200	160	130



MECHANISM OF WORKING

While traditional admixtures consists of polymers which are absorbed by the cement granules; which wrap around the granules' surface areas at the very early stage of the concrete mixing process. The sulphonic groups of the polymer chains increase the negative charge of the cement particle surface and disperse these particles by electrical repulsion. This electrostatic mechanism causes the cement paste to disperse and has the positive consequence of requiring less mixing water to obtain a given concrete workability.

BROCRETE™ C 800



PACKING & DOSAGE

BROCRETE C 800 is supplied in, 50, 100, 200, 225 kg carboys, and in bulk quantity on request.

The normal dosage is about 0.6%-1.5% by weight of cementitious material. However, the optimum dosage is to be determined by site trials.

SHELF LIFE & STORAGE

BROCRETE C 800 will have a shelf life of **12 months** in unopened condition when kept in dry conditions at a temperature between 5°C to 45°C. Storage at higher temperature or high humidity may reduce shelf life.

QUALITY ASSURANCE

Fairmate manufactures entire range of construction chemicals under compliance of ISO 9001, ISO (EMS) 14001 & OHSAS 18001 (Occupational Health and Safety) certified by ISOQAR / UK.

TECHNICAL SERVICES

Mix Design : Fairmate has a dedicated advisory service on Concrete Mix Design and can be contacted if assistance is required.

While new advances and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our laboratory in Baroda and technical personnel & experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.

OUR RANGE OF PRODUCTS

CONCRETE ADMIXTURES WATERPROOFING SYSTEMS ENGINEERING GROUTS INDUSTRIAL FLOOR SURFACES	CONCRETE REPAIRS SURFACE TREATMENT PREPACKED CONCRETE MORTAR PROTECTIVE COATING	HIGHWAY REPAIR LIQUID FLOOR WALL FINISHING SYSTEM
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"Contact us to discuss any potential requirement and you will be assured of a rapid and effective response - that's guarantee !!"



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