

COREFLOW C 800

Formerly known as **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
- It can be used to reduce up to 30% water for a given workability

DESCRIPTION

COREFLOW 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

COREFLOW C 800 complies with **ASTM C-494 Type G**

Chloride Content	<0.2 % as per IS: 9103:1999
Ph	6 to 8.5

COMPATIBILITY

With cements : **COREFLOW 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, **COREFLOW 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

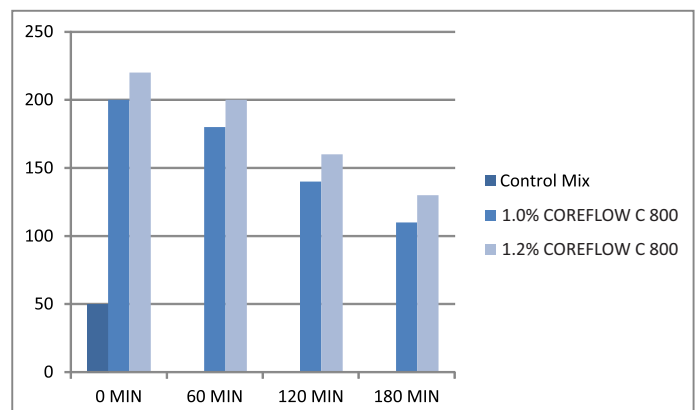
COREFLOW C 800 is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticising effect and water reduction are higher if the admixture is added to the damp concrete after 60 to 80% of the mixing water has been added. The addition of **COREFLOW C 800** to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

TYPICAL RESULT WITH USE OF COREFLOW 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% COREFLOW C 800	200	180	140	110
1.2% COREFLOW 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

COREFLOW C 800

Formerly known as **BROCRETE C 800**

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.

PACKING & DOSAGE

COREFLOW 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

COREFLOW C 800 will have a shelf life of **12 months** in unopened containers when kept in dry conditions at a temperature between 5°C to 35°C. Material must be kept under shaded area and away from direct sunlight. 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 14001 & ISO 45001 (Occupational Health and Safety) certified by ISOQAR/UK.

TECHNICAL SERVICES

While new advances and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our quality control laboratory and technical 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
SEALANT
PREPACKED CONCRETE & MORTAR**

**PROTECTIVE COATING
HIGHWAY REPAIR
ARCHITECTURAL FINISH**

"Contact us to discuss any potential requirement and you will be assured of a rapid and effective response - that's guarantee!!"



Corporate Office
SAROJ HANS LLP
8/1, "SAI SUDHA", Arunoday Society,
Near Crossword, Alkapuri,
Vadodara 390 007. Gujarat, India

+91 265 2330803, 2331193, 2358173
1800 12345 34 (Toll Free)
sales@chemcore.in
www.fairmate.com



International Manufacturing Hubs / Offices :

BANGLADESH INDONESIA KENYA MYANMAR MALDIVES NEPAL PHILIPPINES RUSSIA SRI LANKA USA

The information given in this data sheet is based on both the current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept the responsibility for any work carried out with our materials as we have no control over methods of application, site conditions etc. The user of the product must test the product's suitability for the intended application and purpose. In view of the continuing research and development being undertaken in our laboratories, CHEMCORE reserves the right to change the properties of its products. We advise customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subjected to our standard conditions of sale which are available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact our local CHEMCORE representative.