

## Armix HyyeCrete PC20(MC)

High Performance concrete superplasticiser,  
based on polycarboxylic technology



### TECHNICAL DATA SHEET

#### Product Description

Armix HyyeCrete PC20(MC) differentiated from conventional super plasticizers 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 flowable concrete.

Armix HyyeCrete PC20(MC) combines properties of water reduction and workability retention. It allows the production of high performance concrete and/or concrete with high workability.

Armix HyyeCrete PC20(MC) is a particularly strong super-plasticizer allowing production of consistent concrete properties around the required dosage.

#### Uses

Armix HyyeCrete PC20(MC) is a high performance superplasticizer intended for applications where increased early and ultimate compressive strengths are required, and it has been developed for use in:

- ✓ Self compacting concrete
- ✓ Pumped concrete
- ✓ Concrete requiring long workability retention
- ✓ High performance concrete

#### Features and Benefits

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

#### Consumption

##### Dosage:

The optimum dosage of Armix HyyeCrete PC20(MC) 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 0.3% to 2.0% by weight of cementitious material.

##### Use at Other Dosages:

Dosage outside the normal range quoted above can be used to meet particular mix requirements. Contact MYK Arment for advice in these cases

##### Effects Of Overdosing:

Over dosage may cause delay in the setting time.



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### Technical Data

Appearance : clear to brown

pH 27°C : Min 6.0

Specific Gravity 27°C : 1.10 ± 0.05

Chloride content : Nil to BS: 5075

Standard Compliance: Armix Hyyecrete PC20(MC) complies with IS 9103-1999, ASTM C494 Type G Water Reducing and Retarding admixtures.

### Packaging

Armix HyyeCrete PC20(MC) is available in 210 Kgs, 225 Kgs drums.

### Storage and Shelf Life

Armix HyyeCrete PC20(MC) has a minimum shelf life of 12 months when stored under normal temperatures. It should be protected from extreme temperatures and preferably stored in shade.

### Health & Safety

Armix HyyeCrete PC20(MC) does not fall into hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes.

#### Fire:

Armix Hyyecrete PC20(MC) is water based and non-flammable.

#### Cleaning and Disposal:

Spillages of Armix HyyeCrete PC20(MC) should absorb onto sand, earth or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water. The disposal of excess or waste material should be carried

out in accordance with local legislation under the guidance of the local waste regulatory authority.



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### Product Categories Available



### Legal Note

The information, and, in particular, the recommendations relating to the application and end-use of MYK Arment products, are given in good faith based on MYK Arment current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with MYK Arment's recommendations. In practice, the difference in materials, substrates and actual site conditions are such that no warranty in respect of merchant ability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application & purpose. MYK Arment reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request.