

Armix Emmecrete PC 15

High Performance concrete superplasticiser, based on polycarboxylic technology



TECHNICAL DATA SHEET

Product Description

Armix Emmecrete PC 15 is a unique combination of the latest generation superplasticisers, based on a polycarboxylic ether polymer with long lateral chains. This greatly improves cement dispersion.

Armix Emmecrete PC 15 combines properties of water reduction and workability retention. It allows the production of high performance concrete and/or concrete with high workability.

Armix Emmecrete PC 15 is a particularly strong super-plasticiser allowing production of consistent concrete properties around the required dosage.

Uses

Armix Emmecrete PC 15 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:

- Pumped concrete
- Concrete requiring long workability retention
- High performance concrete
- Suitable for precast units like paver blocks, Hume pipe & electrical polls
- High performance cement for durability

- Water reduction of 20% or more is possible.
- Suitable for OPC, PPC, PSC, PCC, Fly ash and GGBS blend Mix design

Features and Benefits

- Increased early and ultimate compressive strengths
- Increased flexural strength
- Higher E modulus
- Improved adhesion to reinforcing and prestressing steel
- Lower permeability
- Better resistance to aggressive atmospheric condition reduced shrinkage and creep
- Increased durability
- High workability for long period

Application Method

Dosage:

Trials need to be carried out at site to determine the exact dosage of the admixture for the particular mix. However, for normal grades of concrete a dosage from 0.3 - 1.2 % by weight of cement is recommended.

Use at Other Dosages:

Dosages outside the typical ranges quoted above can be used to meet particular requirements. Contact MYK Arment Technical cell for advice.

Over Dosage:

Over dosage may result in high workability and delay in the setting time.

Dispensing:

Measured quantity of Armix Emmecrete PC 15 should be added along with the gauging water. For best results, add Armix Emmecrete PC 15 in the last phase after pre-wetting the mix with 80% of the total water required.

Technical Service:

MYK Arment has an advisory service, who can be contacted if assistance is required.

Technical Data

Appearance	Clear to Light Brown liquid
pH @ 27°C	Min 6.0
Chloride content	Nil



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Standards

Complies with IS 9103-2009, and ASTM C494 Type A, D and G admixture and EN 934-2.

Additional Information

Compatibility: Can be used with all types of cements except high alumina cement. Armix Emmecrete PC 15 is compatible with other types of MYK Arment admixtures when added separately to the mix. Site trials should be carried out to optimize dosages.

Workability:

Can be used to produce good workable concrete that requires minimum compaction.

Cohesion:

Cohesion is improved due to dispersion of cement particles thus minimizing segregation and improving surface finish.

Compressive Strength: Early strength is increased up to 40 to 50% if water reduction is taken advantage of. Generally, there is improvement in strength up to 20% depending upon W/C ratio and other mix parameters.

Packaging

Armix EmmeCrete PC 15 is supplied in 1000 kg. IBC and 210/225 kg drums. Alternatively, bulk deliveries can be arranged.

Storage and Shelf Life

Armix Emmecrete PC 15 has a shelf life of 12 months provided the temperature is kept within the range of 2⁰C to 50⁰C. Should the temperature of the product fall outside this range then contact local MYK Arment office for advice.

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.

Health & Safety

Armix Emmecrete PC 15 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. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. For further information consult the Material Safety Data sheet available for this product.

Fire:

Armix Emmecrete PC 15 is water based and non-flammable.

Product Categories Available

