

Armix Ellecrete PC 5

(Formerly known as MYK REMICRETE PC 5)

Plasticizing Admixture Based on Polycarboxylic technology



TECHNICAL DATA SHEET

Product Description

Armix Ellecrete PC 5 is a plasticizing, water reducing PCE based concrete admixture for regular grade of concrete. Intended for applications where water reduction and long work-ability retention are required.

Uses

- To produce pumpable concrete for lower and medium grade of concrete
- To produce high workability concrete requiring little vibration during placing
- Recommended for Dry precast (Paver Blocks) to increase the production capacity
- Can be recommended up till M40 Grade of concrete

Features and Benefits

- Improved workability - Easier, quicker placing and compaction.
- Increased strength - Provides higher strength concrete with reduced water contents
- Improved quality - High Durability due Denser, close textured concrete with reduced porosity.
- Higher cohesion - Risk of segregation and bleeding minimised; thus aids pumping of concrete
- Chloride free - Safe in pre stressed concrete and with sulphate resisting cements and marine aggregates

Application Methodology

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 0.4% - 1.0 % by weight of cement is recommended, the dosage may be increased to 1.5% to achieve specific slump requirements.

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:

An overdose of the recommended level of admixture may result in high workability, slight increase in air entrainment and retardation of setting time. The ultimate strength of the concrete will not be adversely affected and will generally be higher than for normal concrete if properly placed and cured.

Dispensing:

Measured quantity of Armix Ellecrete PC 5 should be added along with the gauging water. For best results, add Armix Ellecrete PC 5 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 type G admixture and EN 934-2.

Additional Information

Compatibility: Can be used with all types of cements except high alumina cement. Armix Ellecrete PC 5 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 upto 20% depending upon W/C ratio and other mix parameters.

Durability: Reduction in W/C ratio enables increase in density and impermeability thus enhancing durability of concrete.

Packaging

Armix Ellecrete PC 5 is supplied in 1000 kg. IBC and 210/225 kg drums. Alternatively, bulk deliveries can be arranged.

Storage and Shelf Life

Armix Ellecrete PC 5 has a shelf life of 12 months provided the temperature is kept within the range of 2°C to 50°C should the temperature of the product fall outside this range then contact local MYK Arment office for advice.

Health & Safety

Armix Ellecrete PC 5 is non-toxic. Any splashes on the skin should be washed immediately with water. Splashes to the eyes should be washed immediately with water and medical advice should be sought. For further information consult the Material Safety Data sheet available for this product.

Fire:

Armix Ellecrete PC 5 is water based and non- flammable.

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.