

Armix HP 10

(Formerly known as MYK REMICRETE PC 10)

High Performance concrete superplasticiser,
based on polycarboxylic technology



Product Description

Armix HP 10 is a unique combination of the latest generation super plasticisers , based on a polycarboxylic ether polymer with long lateral chains. This greatly improves cement dispersion.

Armix HP 10 combines properties of water reduction and workability retention. It allows the production of high performance concrete and/or concrete with high workability. Armix HP 10 is a particularly strong super-plasticiser allowing production of consistent concrete properties around the required dosage.

Uses

Armix HP 10 is a high performance super-plasticizer 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.

Advantages

- 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 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 0.3 - 1.2 % for 50 Kg 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 cause delay in the setting time.

Dispensing:

Measured quantity of Armix HP 10 should be added along with the gauging water. For best results, add Armix HP 10 in the last phase after prewetting 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
Specific Gravity @ 27°C	1.07 kg/liter \pm 0.05
Chloride content	Nil

Standards

Complies with IS 9103-2009, ASTM C494 Type G

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Additional Information

Compatibility: Can be used with all types of cements except high alumina cement. Armix HP 10 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 HP 10 is available in 20, and 225 Kg drums.

Storage and Shelf Life

Armix HP 10 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.

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.



TECHNICAL DATA SHEET

Health & Safety

Armix HP 10 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 HP 10 is water based and non- flammable.

Cleaning & Disposal

Spillages of Armix HP 10 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.

Product Categories Available



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