

Armix EmmeCrete SP111

(Formerly known as MYK SAVEMIX SP 111)

High performance superplasticising admixture for high grade of concrete for ready mix application



Product Description

Armix EmmeCrete SP 111 is a specially formulated product to meet unique requirements based on Sulphonated naphthalene polymeric material. This High range water reducer, designed to cover several concrete application, where high water reduction and high slump retention are preferred.

Uses

- To produce pumpable concrete
- To produce high strength concrete by substantial reduction in water
- Low permeability and high early strength
- To produce high workability concrete with long haul

Advantages

- Improved workability - Easier, quicker placing and Compaction
- Increased strength - Provides high early strength if water reduction is taken advantage of
- Increased quality - Denser, close textured concrete with reduced porosity and hence enhanced durability
- Higher cohesion - Risk of segregation and bleeding minimized; thus aids pumping of concrete

Application Methodology

Dosage

Trials need to be carried out at site to determine the exact dosage of the admixture for the particular mix design and materials. However for normal grades of concrete a dosage from 0.5% -1.0% by weight of cement is recommended, the dosage may be increased to 2% 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 for advice.

Over dosage:

An overdose of above 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.

Technical Service:

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

Technical Data

Appearance	Clear to Brown liquid
pH @ 27°C	Min 6.0
Chloride content	Nil
Air entrainment	Approx. 1% additional air may entrain depending upon mix

Standards

Armix EmmeCrete SP 111 complies with IS: 9103:1999 and BS 5075- Part 3 and ASTM-C-494 Type A, D and G

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TECHNICAL DATA SHEET

Additional Information

Dispensing:

The measured quantity of Armix EmmeCrete SP 111 should be added along with the gauging water. For best results, add Armix EmmeCrete SP 111 in the last phase after pre-wetting the mix with 80% of the total water required.

Mix Design:

MYK has an advisory service on Concrete Mix Design and can be contacted if assistance is required.

Compatibility: Can be used with all types of cements except high alumina cement. Armix EmmeCrete SP 111 is compatible with other MYK admixtures when added separately to the mix. Site trials should be carried out to optimize dosages.

Workability: Can be used to produce flowing concrete that requires no compaction. Some minor adjustments may be required to produce high workable mix without segregation.

Cohesion: Cohesion is improved due to dispersion of cement reinforced concrete 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.

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

Packaging

Armix EmmeCrete SP 111 is supplied in 1000 kg. IBC and 225/250 kg drums. Alternatively, bulk deliveries can be arranged.

Storage and Shelf Life

Armix HyyeCrete SP 111 has a shelf life of 12 months provided it is covered under cool and dry place.

Health & Safety

Armix EmmeCrete SP 111 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 SP 111 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.