

Armix EmmeCrete SP 111 R

(Formerly known as MYK SAVEMIX SP 111 R)

High Performance, Super Plasticizing Admixture



Product Description

Armix EmmeCrete SP 111 R is supplied as a brown liquid instantly dispersible in water. Armix EmmeCrete SP 111 R has been specially formulated to give high water reductions up to 20% without loss of workability or to produce high quality concrete of reduced permeability.

Uses

- Suitable for high performance concrete
- To produce pumpable concrete
- To increase workability without extra water
- To improve cohesion, minimizing segregation and give better finish.
- Chloride free, safe for use in prestressed
- Can be used with concrete containing microsilica and their cement replacements.

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

The optimum dosage is best determined by site trials with the concrete mix which enables the effects of workability, Strength gain or cement reduction to be measured. Site trials with Armix EmmeCrete SP 111 R should always compared with mix containing no admixture. As a guide, the rate of addition is generally in the range of 0.6 - 2% by weight of cement or 0.5 ltr – 1.5 ltr/100 kg of Cement.

Over dosage:

An over dose above the recommended level of admixture may result in high workability, air entrainment and retardation of setting time depending on the ambient temperature of cure.

As such, more than the recommended dosage may be used if necessary by ascertaining the performance in the lab trials only before using in actual site conditions.

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 to BS 5075
Air entrainment	Less than 1 % additional air is entrained

Standards

Armix EmmeCrete SP 111 R complies with IS: 9103:1999 & BS:5075 Part 3 - 1985, and ASTM C494 Type 'F'
Also confirms to IS: 2645



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TECHNICAL DATA SHEET

Additional Information

Dispensing:

The correct quantity of Armix EmmeCrete SP 111 R should be used by means of a dispenser. The measured quantity of Armix EmmeCrete SP 111 R should be added along with a part of gauging water in case of batching plants. Alternatively, correct dosage should be used with about 20% of the total water in the last phase after the mix has been prewetted.

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 R 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 R is supplied in 1000 kg. IBC and 250 kg drums. Alternatively, bulk deliveries can be arranged.

Storage and Shelf Life

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

Health & Safety

Armix EmmeCrete SP 111 R 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 R is 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.

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