

Armix ElleCrete P 101

(Formerly known as MYK SAVEMIX P 101)

Water Reducing Concrete Admixture



Product Description

Armix ElleCrete P 101 is a chloride free water reducing admixture based on selected sugar-reduced lingo sulphonates. It is supplied as a brown solution which instantly Disperses in water. Armix ElleCrete P 101 disperses the fine particles in the concrete mix, enabling the water content of the concrete to perform more effectively and improving the consistency of the concrete. This produces higher levels of workability for the same water content, allowing benefits such as water reduction and increased strengths.

Uses

- To improve the effectiveness of the water content of a concrete mix.
- Higher dosages provide effective means of reducing concrete permeability and thereby reducing water penetration.

Features and Benefits

- Allows specified strength grades to be met at reduced cement content or increased workability.
- Water reduction significantly improves compressive strengths at all ages and enhances durability through the production of low permeability concrete.
- Minimizes the risk of segregation and bleeding and assists in the production of a dense, close textured surface, improving durability.
- Chloride free, safe for use in pre stressed and reinforced concrete.

Application Methodology

Compatibility:-

ArmixElleCrete P 101is compatible with other MYK Arment admixtures in the same concrete mix. All admixtures should be added to the concrete separately and must not be mixed together prior to addition. The performance of concrete containing more than one admixture should be assessed by the trial mix procedure recommended in this data sheet to ensure that, effects such as unwanted retardation do not occur. Armix ElleCrete P 101 is suitable for use with all types of ordinary Portland cements and cement replacement materials such as PFA, GGBFS and micro silica.

Reducing water permeability ('Waterproofing'):-

One of the most effective means by which the water permeability of a concrete mix can be reduced is to make a large reduction in water-cement ratio can be used to provide such a reduction and to produce a concrete with the benefits of low permeability.

Dispensing

The correct quantity of Armix ElleCrete P 101 should be measured by means of a recommended dispenser. The admixture should then be added to the concrete with the mixing water to obtain the best results.

Effects of overdosing

An overdose of double the intended amount of Armix ElleCrete P 101 will result in an increase in retardation as compared to that normally obtained at the intended dosage. This effect is found with most water reducing admixtures although the degree may vary. Retardation is affected by factors other than the admixture depending on the mix details and conditions involved. Trials to assess the effects in a particular mix are strongly recommended if this aspect is of particular importance, provided that adequate curing is maintained. The ultimate strength of the concrete will not be impaired by increased retardation and will generally be increased.

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The effects of overdosing will be further increased if sulphate resisting cement or cement replacement materials are used. Over dosage may also cause increased air entrainment, which will tend to reduce strength. The degree of this effect will depend on the particular mix design and overdose level. An overdose will tend to increase the plasticizing effect of the admixture. As concrete is normally batched to target workability, increased plasticizing will allow an increasing ultimate strength and partially or fully offsetting the effect of any increased air entrainment. If no increase in water reduction is taken and a significant rise in workability is allowed the chance of segregation may be higher. Increased initial workability will tend to extend the working life of the concrete, which will delay finishing and stiffening time to some extent.

Technical Data

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| Appearance | Brown liquid |
| Specific gravity @25deg.C | 1.160 - 1.180 |
| Chloride content IS:456 | Nil |
| Air entrainment (Additional air is entrained at normal dosages) | Typically less than 1.5% |
| Alkali content | Typically less than 5.0g Na ₂ O equivalent / kg of admixture |

Consumption

The optimum dosage of Armix ElleCrete P 101 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. This allows the optimization of admixture dosage and mix design and provides a complete assessment of the concrete mix. A starting point for such trials is to use a dosage within the normal typical range of 0.20 to 0.50 litres / 100kg of cementitious material, including PFA, GGBFS and micro silica. Dosages outside the typical ranges quoted above may be used if necessary and suitable to meet particular mix requirements, provided that adequate supervision is available. Compliance with requirements must be accessed through trial mixes. Contact MYK arment Technical Services Department for advice in these cases

Packaging

ArmixElleCrete P 101 is supplied in 20 kg pail and 250 kg drums.

Storage and Shelf Life

ArmixElleCrete P 101 has a minimum shelf life of 12 months provided the temperature is kept within the range of 20°C to 40deg.C.

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Annotation

As with all structural concrete, good curing practice should be maintained.

Health & Safety

ArmixElleCrete P 101 is non-toxic, non-inflammable; any splashes should be washed well with water. If contacts with eyes occur it shall be washed immediately with water and medical advice sought immediately.

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.