

Armix Retard

(Formerly known as MYK Remitard R)

Set-retarding admixture for concrete



TECHNICAL DATA SHEET

Product Description

Armix Retard is a chloride free set-retarding admixture based on selected polyhydroxy materials. It is supplied as brown solution which instantly disperses in water.

Armix Retard effects the initial hydration of concrete, resulting in a delay in the setting time of the concrete with no adverse effect on subsequent stiffening and strength gain.

Uses

- To extend the setting time of concrete, extending
- Hot weather concreting
- Mass concreting
- Working times and minimising delay problems.
- To extend the working life of semi-dry concrete screeds
- Particularly suitable for use in mixes having fly ash and also improve the working life of semi dry concrete mixes, specifically RCC (Roller Compacted Concrete) type of mixes.

Advantages

- Controlled retardation extends working life and stiffening time for ease of construction
- Control of stiffening improves slip forming and assists in preventing the formation of cold joints in large pours
- Chloride free, safe for use in prestressed and reinforced concrete

Application Methodology

Application Instructions:

Compatibility:

Armix Retard is compatible with other Arment admixtures used in the same concrete mix. All admixtures should be added to the concrete separately and must not be mixed together prior to addition. The resultant properties of concrete containing more than one admixture should be assessed by the trial mix to ensure that effects such as unwanted excessive retardation do not occur.

Armix Retard is suitable with all types of ordinary Portland cements and cement replacement materials such as PFA, GGBFS and silica fume. Further information on such usage is provided elsewhere on this datasheet

Dispensing:

The correct quantity of Armix Retard 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. Arment shall be contacted for advice regarding suitable equipment and its installation.

Effects of overdosing

An overdose of double the intended amount of Armix Retard will result in a significant increase in retardation as compared to normally obtained at the intended dosage. Provided that adequate curing is maintained, the ultimate strength of the concrete will not be impaired by increased retardation and will generally be increased. The effects of overdosing will be further increased if sulphate resisting cement or cement replacement materials are used.

An overdose will tend to increase the plasticising effect of the admixture. As concrete is normally batched to target workability, increased plasticising will allow an increased water reduction. This will have the effect of 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 times to some extent. Over dosage may also lead to reduced mix cohesion and may cause segregation and bleeding, particularly in high workability mixes. The degree of this effect will depend on the particular mix design and overdose level.

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Typical Dosage:

The optimum dosage of Armix Retard to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. This allows the optimisation 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 0.25 to 0.60 litres / 100 kg of cementitious material, including PFA, GGBFS or microsilica

Use at other dosages

Dosages outside the typical range 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 assessed through trial mixes. MYK shall be contacted for advice in these cases

Curing:

As with all structural concrete, good curing practice should be maintained, particularly in situations where an overdose has occurred. Water spray, wet hessian or a Concure spray applied curing membrane should be used.

Cleaning and Disposal:

Spillages of Armix Retard should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. 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

Technical Data

Appearance	Brown liquid
Chloride content	Nil
Air entrainment	Typically slightly less air will be entrained than in a normal concrete mix.

Standards Compliance

Armix Retard complies with BS 5075 Part 1 and with C494 as Type B and Type D

Freezing point : Approximately - 4°C

Fire:

Armix Retard is water based and non-flammable.

Packaging

Armix Retard is available in 250 Kgs containers.

Storage and Shelf Life

Armix Retard has min. shelf life of 12 months provided the temperature is kept within the range of 20°C to 50°C. Should the temperature of the product fall outside this range then Arment shall be consulted.

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Health and Safety Instructions

Armix Retard should not be 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 it shall be rinsed immediately with plenty of water and medical advice sought immediately. If swallowed, medical attention shall be sought immediately. Vomiting should not be used

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.