

Armix CI

(Formerly known as MYK Savemix CN 100)

Calcium Nitrite Corrosion Inhibiting Admixture



TECHNICAL DATA SHEET

Product Description

Armix CI admixture is based on Calcium Nitrite. It is supplied as a pale straw coloured solution that instantly disperses in water

Uses

- As a corrosion inhibiting admixture for use in concrete where Calcium Nitrite is required.

Advantages

- Calcium Nitrite acts as a corrosion inhibitor in reinforced concrete.
- Can be used in conjunction with other mixtures.
- Will not affect workability or strength of concrete.

Application Methodology

Application instructions

Compatibility

Armix CI is compatible with other 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 trial mixes to ensure the desired combination of Armix CI is suitable for use with ordinary Portland cement. Contact Arment technical team for advice on use with sulphate resisting cements and cement replacement materials.

Dispensing:

The correct quantity of Armix CI should be measure by means of a recommended dispenser. The admixture should then be added to the concrete with the mixing water to obtain the best results. Contact Arment for advice regarding suitable dispensing equipment and its installation.

Curing:

As with all structural concrete, good curing practices should be maintained. Water spray, wet hessian or spray applied curing membranes should be used.

Limitations:

Normal precautions for cold weather concreting should be followed where Armix CI is used.

Technical Data

Appearance	Pale straw-coloured liquid
Chloride content	Nil to BS 5075
Specific gravity @ 30°C	1.10 – 1.15

Coverage

Dosage is normally in the range of 15 to 45 litre / m³ (approx. 4 - 12 % by weight of cement). The following table may be used for guidance. The level of corrosion inhibition increases with dosage.

Typical Dosage:

The dosage of Armix CI should be as determined in the concrete mix specification depending on the chloride ions expected at the surface of the steel with in the life expectancy of the concrete structure. Based upon FHWA recommended 0.90 chloride to nitrite ratio 30% CaNO₂Sol.

Chloride Threshold (Kg/m ³)	Recommended dosage of calcium nitrite admixture (litres/m ³)
3.5	30.0
4.2	35.0
5.5	45.0
6.0	50.0
6.4	55.0
7.2	60.0

Armix CI

(Formerly known as MYK Savemix CN 100)

Calcium Nitrite Corrosion Inhibiting Admixture



TECHNICAL DATA SHEET

Packaging

Armix CI is available in 210 kg HDPE drums

Storage and Shelf Life

Armix CI has a minimum shelf life of 12 months provided the temperature is kept within the range of 20°C to 40°C. Armix CI is an oxidizing agent and should be stored away from reducing agents and combustible materials.

Health & Safety

Armix CI is toxic and should not be swallowed or allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles. 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. If swallowed seek medical attention immediately - do not induce vomiting.

Fire

Armix CI is water based and non flammable but should be stored away from combustible materials.

Cleaning and disposal

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

Do not allow Armix CI to enter rivers or drains. 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



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.