

Expanplast* CN



CONSTRUCTION CHEMISTRY

Calcium nitrite corrosion inhibiting admixture

Uses

Where calcium nitrite is specified for addition to concrete as a corrosion inhibiting admixture.

Advantages

- Based on the main chemical types specified for use as a corrosion inhibitor for concrete
- Can be used in conjunction with other admixtures

Description

Expanplast* CN admixture is based on calcium nitrite. It is supplied as a pale straw coloured solution that instantly disperses in water. The product has been neutralized for good slump retention.

Standard Compliance

Expanplast* CN confirms with BS 5075

Expanplast* CN conforms with ASTM G109.

Technical support

Expanchem Fospak provides a technical advisory service for on-site assistance and advice on admixture selection, evaluation trials and dispensing equipment. Technical data and guidance can be provided for admixture and other products for use with fresh and hardened concrete.

Typical dosage

Expanplast* CN should be used to meet the addition levels required in concrete mix specification documents. Typical specified dosage levels are normally in the range of 5.0 to 22.5 Kg. per cubic metre of concrete. Because Expanplast* CN has a high dosage level, calculation of water : cement ratio should include the water added to the mix in the admixture.

Properties

Appearance :Pale straw coloured liquid

Calcium nitrite content :Minimum 30%

Instructions for use

Compatibility

Expanplast* CN is compatible with other Expanchem Fospak 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 effects is obtained.

Expanplast* CN is suitable for use with ordinary Portland cement. Contact the Expanchem Fospak Technical Service Department for advice on use with sulphate resisting cements and cement replacement materials.

Dispensing

The correct quantity of Expanplast* CN 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.

Contact the Expanchem Fospak Technical Service Department for advice regarding suitable dispensing equipment and its installation.

Curing

As with all structural concrete, good curing practice should be maintained. Water spray, wet hessian or a Expancure* spray applied curing membrane should be used.

Estimating

Expanplast* CN is available in 250 Kg. drums or bulk supply.

Storage

Drum supply - must be shaken and rolled before use.

Bulk supply - must have a re-circulating pump

Expanplast* CN has a minimum shelf life of 12 months provided the temperature is kept within the range of 2°C to 50°C. Should the temperature of the product fall outside this range then the Expanchem Fospak Technical Service Department should be contacted for advice.

Expanplast* CN is an oxidizing agent and should be stored away from reducing agents and combustible materials.



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Precautions

Health and safety

Expanplast* CN 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.

For further information, please consult Material Safety Data Sheets for the above products.

Fire

Expanplast* CN is water based and non-flammable but should be stored away from combustible materials.

Cleaning and disposal

Spillages of Expanplast* CN should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Do not allow Expanplast* CN 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.

Additional Information

Expanchem Fospak manufactures a wide range of complementary products which include :

- waterproofing membranes & waterstops
- joint sealants & filler boards
- cementitious & epoxy grouts
- specialized flooring materials

Expanchem Fospak additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Expanchem Fospak's 'Systematic Approach' to concrete repair features the following :

- hand-placed repair mortars
- spray grade repair mortars
- fluid micro-concretes
- chemically resistant epoxy mortars
- anti-carbonation/anti-chloride protective coatings
- chemical and abrasion resistant coatings

For further information on any of the above, please consult your local Expanchem Fospak office - as below

* Denotes the trademark registered

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Important note

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