

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

Conplast CNI is essentially based on calcium nitrite. Additionally, it has been neutralised for good slump retention as it is also based on naphthalene sulphonate formaldehyde co-polymer (superplasticizer) and hydroxycarboxylic acid salt (retarder) to offset the acceleration of setting which is normally associated with calcium nitrite based corrosion inhibitors.

Standard Compliance

Conplast CNI has been approved by the British Board of Agrément under Certificate No. 04/4171.

Conplast CNI conforms with ASTM G109.

Technical support

Fosroc 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

Conplast CNI should be used to meet the addition levels required in concrete mix specification documents. Typical specified dosage levels are normally in the range of 7.5 to 22.5 litres per cubic metre of concrete. Because Conplast CNI has a high dosage level, calculation of water : cement ratio should include the water added to the mix in the admixture.

Typical Properties

Appearance	: Brownish coloured liquid
Chloride content	: Nil to BS 5075 / BS:EN934
Calcium nitrite content	: Minimum 30%

Instructions for use

Compatibility

Conplast CNI is compatible with other Fosroc 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.

Conplast CNI is suitable for use with ordinary Portland cement. Contact the Fosroc Technical Service Department for advice on use with sulphate resisting cements and cement replacement materials.

Dispensing

The correct quantity of Conplast CNI 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 Fosroc 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 Concure* spray applied curing membrane should be used.



Fosroc Conplast CNI

Estimating

Supply

Conplast CNI

210 litre drum, 1000 litre totes or bulk

For larger users, storage tanks can be supplied.

Storage

Drum supply - must be shaken and rolled before use.

Bulk supply - must have a recirculating pump

Conplast CNI 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 Fosroc Technical Service Department should be contacted for advice.

Conplast CNI is an oxidising agent and should be stored away from reducing agents and combustible materials.

Precautions

Health and safety

Conplast CNI 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

Conplast CNI is water based and non-flammable but should be stored away from combustible materials.

Cleaning and disposal

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

Fosroc manufactures a wide range of complementary products which include :

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

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Fosroc'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 Fosroc office - as below.

* Denotes the trademark of Fosroc International Limited

† See separate data sheet



Al Gurg Fosroc LLC

Post Box 657, Dubai
United Arab Emirates

www.fosroc.com

Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. **All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.**

Head Office

telephone: (+9714) 2039699

fax: (+9714) 2859649

email: agf@fosroc.com

Regional offices

Abu Dhabi, Al Gurg Fosroc
Bahrain, YBA Kanoo
Kuwait, Boodai
Oman, Al Amana
Qatar, Tadmur

telephone: 673 1779
telephone: 17738200
telephone: 4817618
telephone: 24815080
telephone: 4665501

fax: 673 1449
fax: 17738288
fax: 4832124
fax: 24817554
fax: 4664147

email: abudhabi@fosroc.com
email: bahrain@fosroc.com
email: kuwait@fosroc.com
email: oman@fosroc.com
email: qatar@fosroc.com

