

**PRODUCT DESCRIPTION:** Fibcon CIA is a Calcium Nitrite based admixture designed to inhibit the corrosion of steel reinforcement in concrete. This product contains a 30% Calcium Nitrite with maximum calcium nitrate content of 3% and also contains salt of Hydroxycarboxylic acid to offset the accelerating effect of Calcium Nitrite. When used at recommended dosage rates, this product introduces the proper, industry recognized amount of anodic inhibitor.

#### AREAS OF APPLICATION

- Exterior steel reinforced concrete
- Structural and plain concrete
- Parking decks and exposed balconies

#### ADVANTAGE

- Calcium Nitrite based formula used for many years in concrete industry.
- Chemically inhibits the corrosion process
- Dosage rate is directly related to expected chloride concentration
- Increases protection for reinforcement in concrete.

#### APPLICATION

##### APPLICATION METHODOLOGY

Mix Design : It is strongly recommended the optimum mix trials be made before the start of job site pours. This will allow the ready-mix concrete producer to determine the proper batching sequence and the required dosage of other admixtures needed to deliver the specified concrete mix to the job site. Fibcon CIA may be added with the concrete batch water. It should not be mixed with any other admixture prior to being introduced into the concrete mixer. Mix designs are supplied upon request.

##### DOSAGE RATE

The chloride to nitrite ratio is important. The project specification will indicate or specify the amount of chloride ions protection necessary. The dosage rate of Fibcon CIA is directly related to the level of chloride protection. Normally, Fibcon CIA can be used in 10 ltr - 30 ltrs per m<sup>3</sup> concrete. When no specified chloride ion protection is specified.

#### TECHNICAL SPECIFICATIONS

Appearance	Pale straw coloured liquid
Calcium Nitrite	30%
pH Value	8.0 to 10.5
Specific Gravity	1.25 to 1.53
Setting	Fibcon CIA is a neutral set concrete admixture
Slump	Fibcon CIA has little effect on the slump of concrete

#### CLEAN UP

Clean all tools immediately after use with water. Do not allow material to harden. Any hardened material will need to be removed mechanically.

#### PACKAGING

FIBCON CIA available in 5 kg can and 200 kg barrel.

#### STORAGE

Store the material at temperatures between + 10° C and + 45° C in originally sealed packages, the material can be stored for 6 months. But before opening the drums, be assured that the temperature of the materials has the ambient temperature to avoid condensation. Open containers of material should be used quickly to avoid moisture contamination.

#### PRECAUTIONS

During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

#### DISPOSAL / SPILLAGE

Spillage of any of the component products should be absorbed onto sand or other inert material and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

# Tech Data

## NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

## HEALTH AND SAFETY

This material is intended to be used by trained professionals with proper equipment's. The following safety measures are recommended:

- Wear protective gloves, clothing, goggles, hearing protection for noise reduction and hard hats for falling debris.
- Do not eat, drink or smoke while in active contact with these materials.
- Avoid skin contact.
- Wash hands thoroughly with soap and cool water.
- Never wash the skin with a solvent.
- Anyone experiencing difficulty breathing when working with these materials or showing an allergic reaction should seek fresh air immediately and consult a physician if symptoms persist.

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## FIBREX OTHER PRODUCTS – WE DO

