

MIXO[®] CN CI

Corrosion Inhibitor Concrete Admixture

DESCRIPTION

MIXO[®] CN CI is based on Calcium Nitrite, which interacts with the structural steel in concrete to prevent chloride attack. MIXO[®] CN CI chemically reacts with steel to maintain a passivating layer when chlorides penetrate the concrete, significantly delaying the rate of corrosion. MIXO[®] CN CI is suitable for use in tropical and hot climates.

USES

- All reinforced concrete used in Foundations, Ground Floors, Split slabs, Car decks, Inverted roofs, Basements, Underground Tunnels, etc.
- All reinforced precast, pre-stressed, post-tensioned, or marine concrete structures.
- Concrete substructures marine in environment/splash zones, water reservoirs, and swimming pools.
- Pre-cast and all steel reinforced concrete structures exposed to deicing salts and corrosive environment such as carbonation and atmospheric attack.
- Industrial concrete structures with Sulphur vapor.
- Concrete mixed with chloride water.
- Cooling Towers, Plant & Factory floors subject to chemical and/or acid attack.
- Preventive maintenance, restoration, and repair of all reinforced concrete structures, when utilizing proprietary repair mortars.

ADVANTAGES

- Increases the life of all reinforced concrete structures.
- Chemically inhibits the corrosive action of chlorides on all reinforcing steel and pre-stressing tendons.
- Can be used in conjunction with other MIXO admixtures.
- Water based & non-flammable, therefore safe to use.

- Compatible with all types of Portland cement, class C and F fly ash, slag, micro silica, and fibers.
- Offers Owners, Clients, Engineers, and Govt. Bodies, a time-proven, corrosion inhibiting technology that will extend the life of all reinforced concrete structures.

STANDARDS COMPLIANCE

ASTM C1582.

PACKAGING

210 liter drums or 1000 liter flow bins.

SHELF LIFE & STORAGE

12 months storage life if stored in its original unopened containers under a dry and shaded place in a temperature from 2°C to 50°C. MIXO[®] CN CI is an oxidizing agent and should be stored away from reducing agents and combustible materials.

TECHNICAL PROPERTIES

Appearance	Pale yellow liquid
Density @ 25°C	1.275±0.02 Kg/Ltr
pH @ 25°C	11±1
Chloride content	Nil

APPLICATION INSTRUCTIONS

Dispensing

MIXO[®] CN CI is ready to use. For the best results it should be added during the mixing cycle at the same time as the water. Automatic dispensing equipment is recommended for economical usage and to achieve the required performance. MIXO[®] CN CI is fully compatible with MIXO plasticizers, retarders, superplasticizers, air entraining agents, and other admixtures. All admixtures should be dispensed separately to obtain the best results.

Dosage

MIXO® CN CI should be used to give the addition level required in concrete mix specification documents. Typical specified dosage levels are normally in the range of 7.5 to 22.5 liters per cubic meter of concrete. Because MIXO® CN CI has a high dosage level, calculation of water/cement ratio should include the water added to the mix in the admixture.

Overdosing

Overdosing with MIXO® CN CI will normally result in increased workability and possible reduction in setting time. Trial mixes should be always conducted to ascertain the optimum performance of concrete as per given site conditions and requirements. Please ask for CIC technical advice if any overdose is demanded.

LIMITATIONS

MIXO® CN CI may accelerate the set of concrete. This should be checked during trials. Various grades of MIXO retarding admixtures can be used to offset any undesired effects. For optimum protection of reinforced concrete against chloride attack the water/cement ratio of the concrete must be kept to a very low level. Water/cement ratios of below 0.4 should typically be specified for this purpose. The use of MIXO plasticizers and superplasticizers will be found useful in obtaining this performance.

Curing

Fresh concrete should be cured by water immediately after the final setting time, especially at high temperatures. In the absence of water, use one of our Cicocure® products.

CLEANING & DISPOSAL

Spillages of MIXO® CN CI should be washed out with water or absorbed into fine sand and disposed off in accordance with local authorities' regulations.

PRECAUTIONS

Health And Safety

MIXO® CN CI is toxic. It should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective goggles and gloves should be worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When contact with the skin, wash off immediately with soap and water. If swallowed, seek medical attention immediately, do not induce vomiting.

TECHNICAL SUPPORT

CIC provides on-site assistance and consulting services on projects when requested. Technical data sheets on other MIXO products and guidance on their use are available on request.



Warranty

CIC products are guaranteed against defective materials and manufacture and sold subject to CIC's standard terms and conditions of sale. Whilst CIC endeavors to ensure that any advice, information or recommendation given is correct, the company cannot accept any liability either directly or indirectly arising from the use of its products. User of the product must test the product's suitability for the intended application and purpose, since the company has no control over the application of its products. Information contained in this document is given on the best current knowledge. Our Products are in continuous development and CIC reserves the right to change the product without prior notice.

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