

CIKOplast CaNi

Smart Chemical Solutions



Corrosion Inhibiting Admixture

Description

CIKOplast CaNi is a Calcium Nitrite based admixture designed to inhibit the corrosion of steel reinforcement in concrete. This product contains Calcium Nitrite. When used at recommended dosage rates, this product introduces the proper anodic inhibitor.

Properties

- Calcium Nitrite based formula used for many years in the concrete Industry.
- Chemically inhibits the corrosion process.
- Reduces the need of additional accelerating admixtures in cold weather.
- Dosage Rate is directly related to expected chloride concentration Refer Table-1
- Increase protection for reinforcement in concrete.

Application area

- Exterior steel reinforced concrete.
- Structural and plain concrete.

Applicable standards

CIKOplast CaNi complies with ASTM C-494 type C.

Physical properties

Form	Liquid
Specific Gravity	1.30 ± 0.03 at 25 °C
Compatibility	Compatible with other CIKO admixtures and all types of cement
Air content	Less than 2%
Chloride Content	BS5075 NIL

Dosage

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 CIKOplast CaNi is directly related to the level of chloride protection and can be chosen from below table

CIKOplast CaNi Dosage rates VS Chloride Protection.

CIKOplast CaNi l/m ³	Chloride Kg/m ³
10	3.6
12.5	4.8
15.0	5.9
17.5	6.8
20.0	7.7
22.5	8.4
25.0	8.9
27.5	9.3
30.0	9.5

Usage instructions

CIKOplast CaNi is a ready to use concrete admixture. Required/calculated amount of CIKOplast CaNi should be measured by means of measuring jar or dispenser, and should be added to concrete during mixing process preferably at the same time along with water.

To attain optimum efficiency and performance, Dose CIKOplast CaNi with the mixing water, it is recommended to use automatic dispenser.

Set Acceleration

CIKOplast CaNi will accelerate concrete setting times at all recommended dosages. To counteract this acceleration use of retarding super plasticizer is necessary.

NOTE: CIKOplast CaNi should not be mixed with dry/lump concrete.

Compatibility with other admixtures

CIKOplast CaNi is compatible with other CIKO admixtures provided each admixture is dispensed separately into the concrete. Site trials should be conducted to obtain optimum dosage. Contact CIKO technical service department for any further information.

Packaging

CIKOplast CaNi is available in 210 litre drums and 1000Ltr IBC tank.

Shelf Life

CIKOplast CaNi has a minimum shelf life of 24 months if stored in accordance with CIKO instructions.

Storage

CIKOplast CaNi should be stored under enclosed shaded area at a temperature between 5^o and 50^o C.

Precautions

- Dosage shall not be more than the maximum limit

Effect of over dosage:

Over dosage to the extent of double the recommended dosage of CIKOplast CaNi will result in early setting of concrete.

Health & Safety

CIKOplast CaNi should not come in contact with eyes or to be swallowed. If comes in contact with eyes, flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

Technical Support

For any technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off site services to end users, specifier and contractors.

More from CIKO Middle East

A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- Concrete admixtures and additives
- Waterproofing and damp proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries