

CAT. NO. ADM-15-2009

ISOPLAS CNI

Corrosion Inhibiting Admixture

ISOPLAS CNI is a calcium nitrite-based admixture especially formulated for protection of steel reinforcements in concrete against chloride-induced corrosion. In a highly alkaline environment, steel reinforcement in concrete is protected by a passivating ferric oxide layer which tends to breakdown in the presence of chlorides and moisture. This results in corrosion which if left untreated leads to concrete deterioration. The inclusion of **ISOPLAS CNI** in fresh concrete mixes chemically interacts with the reinforcing steel to form a barrier against chloride penetration.

APPLICATIONS

ISOPLAS CNI is used in all types of steel reinforced concrete such as found in bridge decks, floor slabs, parking garages, precast/ prestressed slabs, marine structures, tunnels, retaining walls, foundation sub-structures, etc.

SPECIFICATION

ISOPLAS CNI conforms with the requirements of ASTM C 1582 and ASTM C 494 Type C (accelerating admixture)

ADVANTAGES

- Corrosion protection for embedded steel reinforcement in concrete
- Extends service life of concrete structures
- Also acts as an accelerator during cold weather.
- Contains 30% calcium nitrite minimum.
- Compatible with all types of Portland cement and pozzolanic materials

DOSAGE

Recommended dosage is generally from 10 to 30 liters per cubic meter depending on the anticipated chloride loading of the structure. As an accelerating admixture, typical dose is between 1-2 liter per 100 kg cement.

GENERAL NOTES

The addition of **ISOPLAS CNI** will accelerate setting and influence slump retention, depending on dose. To reduce this effect, we recommend using other compatible ACI admixtures such as **ISOPLAS PCE** range, **ISOPLAS BT**, **ISOPLAS PSG/PSM**, **AEA**. It is always recommended to make trial batches to determine optimum dosage of each admixture and sequence of addition. Normally, **ISOPLAS CNI** is added last in the batching sequence together with part of the mixing water.

PACKING/ SHELF LIFE

ISOPLAS CNI is packed in 200 liter drum or 1000 liter IBC. It has a minimum shelf life of six (6) months when stored in covered warehouse condition.

HEALTH/ SAFETY

All chemicals should be handled with caution. Always wear body protection – eye goggles, rubber hand gloves and coveralls. If accidentally spilled on the skin, wash thoroughly with water and soap. If spilled on the eyes, wash with plenty of water. If irritation persists consult a physician. If swallowed, do not induce vomiting and seek medical attention immediately.

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Technical information, data are to be considered as typical values and not sales specification. Actual measured values may vary due to factors beyond our control. Indications concerning function and application of the products are empirical. Although the information is believed to be accurate, there is no warranty by ACI. None of the recommendations becomes part of the warranted quality of the products. Due to the fact that the conditions of individual use are beyond ACI's direct and continuous control, ACI disclaims all responsibility in connection with the use of its products and does not warrant against any loss direct or consequential.



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