

REC CORRO-IN-12Ci

Bipolar concrete penetrating corrosion inhibiting admixture

DESCRIPTION

Rec Corro- IN- 12 Ci is a water-based organic hi- tech corrosion inhibitor system that works on the Bipolar Inhibition Mechanism (B.I.M). B.I.M. inhibits corrosion of steel in concrete at both the poles, cathodic and anodic simultaneously. Rec Corro- IN-12Ci by virtue of its high vapor pressure & affinity for the embedded metal diffuses through densest concrete to reach the corroding steel. The migration of Rec Corro-IN-12Ci takes place over a prolonged period of time and hence this molecular layer shall continue to protect rebar by its constant presence.

SCOPE OF USE

Protection of concrete structures

- RCC elements/structures exposed to corrosive environment.
- Infrastructures and sub-structures: high-ways, bridges, tunnels, Mega reservoirs, pile foundation, etc....
- Structures exposed to saline atmosphere
- Marine and coastal structures, splash zones
- Sewage systems

FEATURES/BENEFITS

Penetrates to rebar over a prolonged period and arrest corrosion of rusting steel.

- Non-toxic, eco-friendly.
- Nitrite and chromate free.
- Non-deleterious unlike conventional rust converters.
- Effective even in the presence of high amount of chlorides.
- Does not affect bond strength of new concrete to reinforcement bars.
- Does not entrain air.
- Does not affect mechanical strength characteristics of concrete/mortar.

TECHNICAL INFORMATION

Base	Water based organic corrosion inhibitor
Color	Brownish
Specific Gravity	1.04 – 1.06 at 25 C
PH	minimum 9

APPLICABLE STANDARDS

Conforms to ASTM G 109

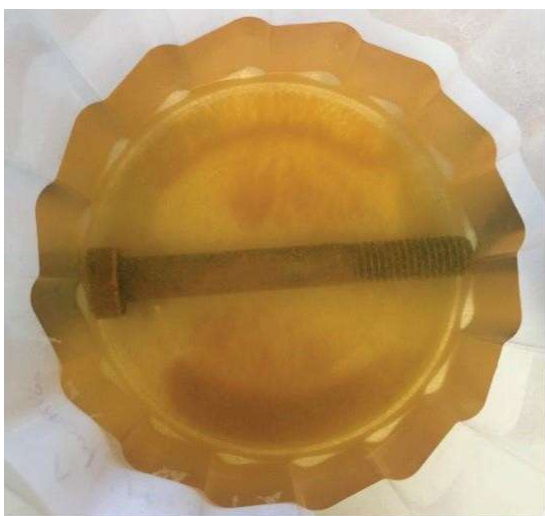
INSTRUCTIONS FOR USE

Rec Corro- IN-12Ci is used as an admixture, by adding into wet concrete mix along with batch water during the mixing of cement, sand, aggregate before placement or pouring into transit mixer to impart corrosion protection to the embedded reinforcement.

DOSAGE RATES

Rec Corro-IN-12Ci is recommended for use at a dosage rate of 2 Kg/m³ of concrete for all applications and corrosion environments. For specific applications, a lower dosage ranging between 1.6 kg/m³ to 2 kg/m³ is applicable but will be strictly depending on the proposed Concrete Mix design and W/C ratio. Therefore prior concrete trials and testing are required.

steel Rod with water



steel Rod with water +1% Admix PC



PACKING

Rec Corro-IN-11Ci is supplied in 20 liters pails, 200-liter drums.

STORAGE

Can be stored up to 12 months from manufacturing date under cover, out of direct sunlight and protected from extreme temperatures.

HEALTH AND SAFETY

In case of frost, the product recovers its properties after progressive thawing and homogenizing by agitation. In case of contact with skin or eyes, rinse thoroughly with water. If irritation persists, seek medical attention. If swallowed, do not induce vomiting and seek medical attention.

QUALITY STATEMENT

All our products are manufactured to comply with our internal QA/QC program and quality management system to ensure consistency and quality.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

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