

STERLING TechnoCrete® BCN 30

Bipolar Penetrating Corrosion-Inhibiting Admixture For Steel Reinforced Concrete

Description:

TechnoCrete® BCN30 is a hi-tech concentrated bipolar concrete penetrating corrosion inhibiting admixture that protects rebars from corrosion induced by chloride ions as well as due to carbonation of concrete. The migration of TechnoCrete® BCN30 takes place over a prolonged period of time and hence this molecular layer shall continue to protect steel reinforcement by its constant presence.

TechnoCrete® BCN30 is not only active in contact with the steel, but also migrates through the concrete porosity to reach the reinforcement to inhibit anodic and cathodic corrosion processes.

Usage:

- Steel reinforced concrete in or near marine environment.
- Piers, piles, and concrete dock structures.
- RCC structures exposed to corrosive environments.
- Bridges, highways, chlorinating plants, sewerage systems.
- Building facades and balconies.

Features & Benefits:

- Penetrates to rebar over a prolonged period and arrest corrosion of rusting steel.
- Does not affect mechanical strength characteristics of concrete/mortar.
- 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.
- Nitrite and chromate free.
- Non-toxic, eco-friendly.

Typical Properties at 25°C:

Base	Water based organic corrosion inhibitor
Appearance	Light brown or Pale Yellow liquid
Specific Gravity	1.04 ± 0.02 at 25°C
PH Value	Minimum 9.0 at 25°C
Standard	Complies with ASTM-G-109
Dosage	2-3 kg/m ³
Point of Addition	Addition into wet concrete. Mix along with batch water or at the time of discharge.

Directions for use:

TechnoCrete® BCN30 is used as an admixture. It is added to the batch water during mixing of cement, sand and aggregates. It may be added to ready mix truck at the concrete plant or at a job site. It is compatible with other Techno Builders Solutions® range of admixtures but should be added separately. The batch water shall be calculated accounting for the quantity of TechnoCrete® BCN30 to be added at 2-3 kgs per cubic meter.

Mixing:

TechnoCrete® BCN30 may be added with concrete batch water. It should not be mixed with any other admixtures prior to being introduced into the concrete mixer.

Packaging:

TechnoCrete® BCN30 available in 225 Kg plastic container.

Storage & Shelf Life:

TechnoCrete® BCN30 must be stored within moderate temperature, under cover, away from direct sunlight. The shelf life is 12 months from the date of production under suitable storage conditions.

Health and Safety instructions:

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.

Additional Information: Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd -The Specialist Construction Chemicals Company® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

*Separate datasheet are available on these products.

Disclaimer: The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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