

FERROCARE MTCI

Powder additive for 3-step corrosion inhibition of RCC



TECHNICAL DATA SHEET

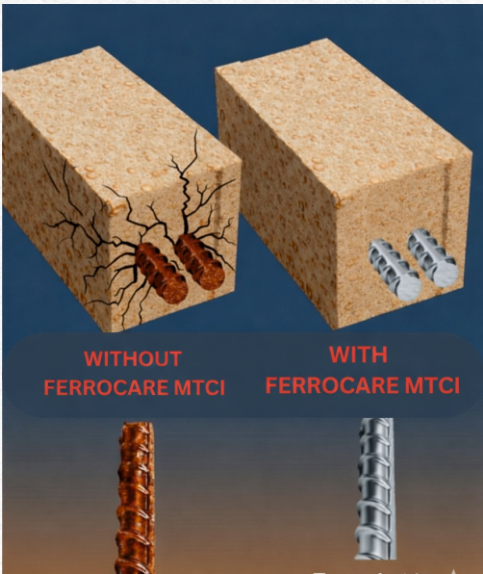
DESCRIPTION:

FERROCARE MTCI possesses high vapor pressure, allowing its vapors to be drawn toward embedded steel rebars. These vapors penetrate even the densest concrete to reach the rebars, where they create a monomolecular ionic layer. This protective layer disrupts the corrosion process by simultaneously inhibiting both anodic and cathodic reactions, thereby preventing further corrosion.

SPECIFICATIONS:

PARAMETER	TYPICAL VALUE
Color & texture	Light Ivory Colored Powder
Polarization resistance	99.6% efficiency
pH @ 30oC	11.50 + 0.50
Dosage	200-500 gms/m ³ of concrete

Forms monomolecular film on rebar surface and inhibits corrosion at both poles



KEY BENIFITS

- Becomes an integral part of the concrete, providing consistent corrosion protection across the entire concrete matrix.
- Gradually penetrates toward the rebar over time, effectively halting steel corrosion.
- Safe, non-toxic, and environmentally friendly.
- Preserves the bond strength between new concrete and reinforcement bars.
- Does not introduce air into the concrete mix.
- Retains the mechanical strength properties of concrete and mortar.

Application Areas

- All kinds of RCC structures.
- Especially effective in corrosive environment

METHOD OF APPLICATION

- To be added into concrete while in the mixing stage at specified dosage
- Can be added before or after addition of batch water as product has no effect on rheology or thixotropy of mix and does not alter any mechanical properties

STORAGE & PACKAGING INFORMATION



STANDARD PACK SIZE
20 Kg Airtight Bags/ Drums



SHELF LIFE
Best before 12months from
date of packaging



STORAGE INSTRUCTIONS
Store in cool, dry & covered
environment (5 to 40oC)

HEALTH & SAFETY INFORMATION

- Direct contact with skin may cause irritation. Avoid skin contact by using protective gloves. If any contact occurs, wash thoroughly with soap and water.
- Should not be inhaled. It is advisable to use a protective respiratory mask of good quality while handling, pouring, and mixing the powder.
- Avoid contact with eyes by using proper eye protection. If such contact occurs, rinse thoroughly with clean water. If any uneasiness persists, seek medical advice.
- If mistakenly ingested, seek medical advice.
- Refer to MSDS for further instructions and precautions

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