

CORROGUARD CI

TOTAL PROTECTION – SOLVENT-BASED
WATER-OIL REPELLENT TREATMENT



DESCRIPTION

CORROGUARD CI is a liquid admixture based on organofunctional silanes designed to be incorporated into fresh concrete to protect reinforcing steel from chloride-induced corrosion. The product disperses within the cement matrix and migrates toward steel surfaces forming a protective hydrophobic film which reduces electrochemical corrosion processes.

FIELDS OF APPLICATION

- Bridges and infrastructure
- Parking structures
- Marine and coastal structures
- Structures exposed to de-icing salts
- Precast concrete elements
- Shotcrete

ADVANTAGES

- Active reinforcement protection
- Reduction of chloride induced corrosion
- Improved concrete durability
- Compatible with most concrete admixtures
- Uniform distribution within the mix

TECHNICAL DATA

Appearance:	Milky white liquid
Chemical base:	Organofunctional silanes
pH:	9.5 – 11.5
Density:	≈1.0 kg/L
Active content:	≈50%

DOSAGE

Typical dosage: 3–8 L/m³ depending on cement content and exposure class.
Recommended dosage: about 5–6 L/m³.

APPLICATION INSTRUCTIONS

1. Prepare the concrete mix design.
2. Add CORROGUARD CI to the mixing water or during mixing.
3. Mix thoroughly to ensure uniform dispersion.
4. Do not add directly onto dry cement.

PERFORMANCE

Rebar corrosion reduction – ASTM G109 – >60%
Chloride penetration – NT Build 492 – Reduced
Capillary absorption – EN13057 – Reduced
Durability improvement – EN206 – Increased



Date 15/10/2025

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PRODUCT SHEET

EXPOSURE CLASSES

XC – Carbonation
XD – De-icing salts
XS – Marine environment

CORROSION PROTECTION MECHANISM

The product migrates toward reinforcing steel forming a protective hydrophobic film that reduces chloride ingress and slows corrosion processes.

SPECIFICATION CLAUSE

Concrete exposed to chlorides shall contain corrosion inhibitor B-TECH CORROGUARD CI at a dosage of 5–6 L/m³.

PACKAGING

- 25 kg canisters
- 200 kg drums
- 1000 kg IBC

STORAGE

+5°C / +40°C — shelf life 12 months.

LEGAL NOTICE

The information and recommendations given above, although they correspond to our best experience, must in any case be considered purely indicative and must be confirmed by exhaustive practical applications. Therefore, before using the product, anyone who intends to make use of it must determine whether it is or is not suitable for the intended application and, in any case, assumes all responsibility that may arise from its use. Always refer to the latest updated version of the technical data sheet, available on the website btechitalia.eu.



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