

Cement Polymer Composite Coatings (CPCC) System



**CSIR - CENTRAL ELECTROCHEMICAL
RESEARCH INSTITUTE,
KARAIKUDI-630003**

CORROSION & MATERIALS PROTECTION DIVISION



CEMENT POLYMER COMPOSITE COATING (CPCC) FOR CORROSION PROTECTION OF REBARS



Designed to protect embedded rebar and prestressed strands in highly aggressive marine environments



Provides exceptional resistance to corrosion and chemical attack in chloride-rich conditions



Maintains excellent bond strength with concrete without compromising structural integrity



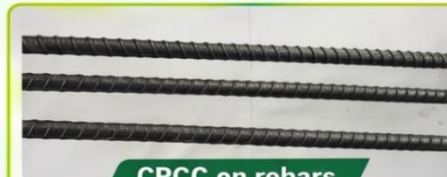
Extends the service life of coastal and offshore structures



Promotes excellent adhesion to steel surface through π electrons



Delivers reliable performance under severe marine exposure conditions



CPCC on rebars

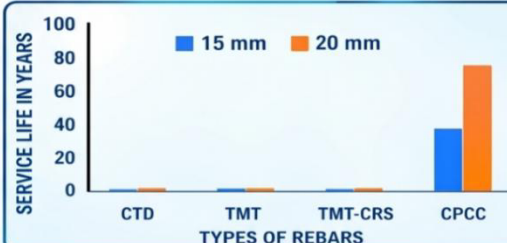


No cracking at outside radius of the bent bar



Passed following tests:

1. Taber Abrasion resistance under 1 kg load per wheel
2. 180° mandrel test for adhesion
3. Resistance to 2V impressed voltage test
4. Tolerance test for chloride
5. Chemical resistance to 3 M CaCl_2 , 3 M NaOH , Sat. $\text{Ca}(\text{OH})_2$
6. Impact resistance of 9 Nm
7. Concrete Bond Test



Rapid Setting
Primer



CPCC Seal Coating
Formulation



Licensed to more than 15 companies

A few of our clients

1. M/s. Jeevach Coating Pvt. Ltd., Mumbai
2. M/s. Shah Enterprises, Mumbai
3. M/s. Mahavir Companies, Mumbai
4. M/s. Protektol Anticorrosives, Chennai

*Stronger Rebars
for a Safer Tomorrow*



Structures using CPCC rebars

- Roopnarayan Flyover,
- Aarey Flyover,
- Goreguan-Mulund Flyover and Vashi Flyover, Mumbai
- Western Freight Corridor, Mumbai (Maharashtra to Gujarat)
- TSCB, Kanchipuram District