

High Performance Moisture Compatible Corrosion Resistant Coating



**CSIR – CENTRAL ELECTROCHEMICAL
RESEARCH INSTITUTE**

CORROSION & MATERIALS PROTECTION DIVISION



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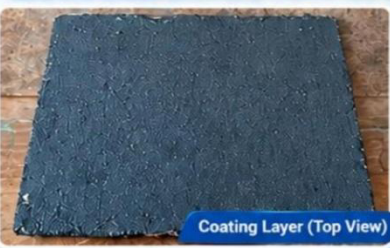
Longer Life
for Concrete
Structures

-  This coating system is specially prepared for wet surface application
-  To protect the concrete structures which have frequent contact with water and high Relative Humidity (RH)
-  It is very useful to prevent the moisture penetration into the concrete structures.
-  Enhances the life of the structure in highly corrosive industrial and marine environments.
-  This coating has horizontal layering of the lamellar particles, overlapping like scales on a fish.
-  Lamellar pigments in the coating acts as an inert barrier to vertical penetration of corrosive species
-  Highly recommended for cooling towers, sewage pipe lines and underwater structures
-  Moisture-curing coatings can be applied with by brush, medium nap roller or airless sprayer
-  The minimum pump pressure for the airless sprayer → 2500 to 3000 psi with a spray nozzle tip size of approximately 0.035 inches.

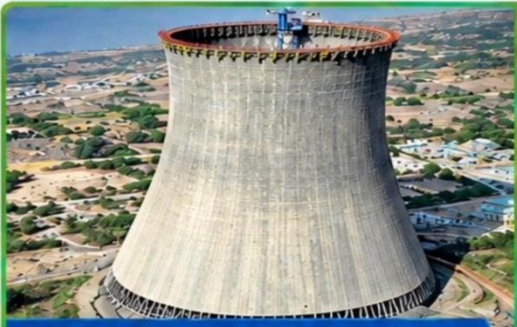
Coating Appearance



Coated Concrete Sample



Coating Layer (Top View)



NDCT–North Chennai Super Thermal Power Project Stage-III (1×800 MW) of TANGEDCO at North Chennai. Asia's tallest (197 m height & highest capacity (800 MW) Cooling Tower.

Coating Properties

Salt spray	: Passes 2000 hrs
Sea water resistance	: Passes up to six months
Impedance (Z at 0.01 Hz)	: $10^9 \Omega \cdot \text{cm}^2$
Adhesion	: 4.5 MPa (Minimum)
Impact resistance	: 45 cm
Flexibility	: $\frac{1}{4}$ " Passes

Liquid Paint Properties

Volume solid	: 70%
Specific Gravity	: 1.3 ± 0.1
Film thickness per coat	: $160 \pm 10 \mu\text{m}$
Area Coverage	: 4 to 4.5 m ² per litre
Touch dry	: 2 hrs

A list of a few companies

1. M/s. Grauer & Weil (India) Limited , Mumbai (July 2026)
2. M/s. Krishna Conchem product Pvt. Ltd., Navi Mumbai
3. M/s. Fosroc Chemicals Pvt. Ltd. Bangalore
4. M/s. Sunanda Speciality coating Pvt. Ltd.
5. M/s. Syn organic paints Pvt Ltd., Bhilai, Chattisgarh



This technology has been transferred to **more than 10** paint manufacturers in our country.

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