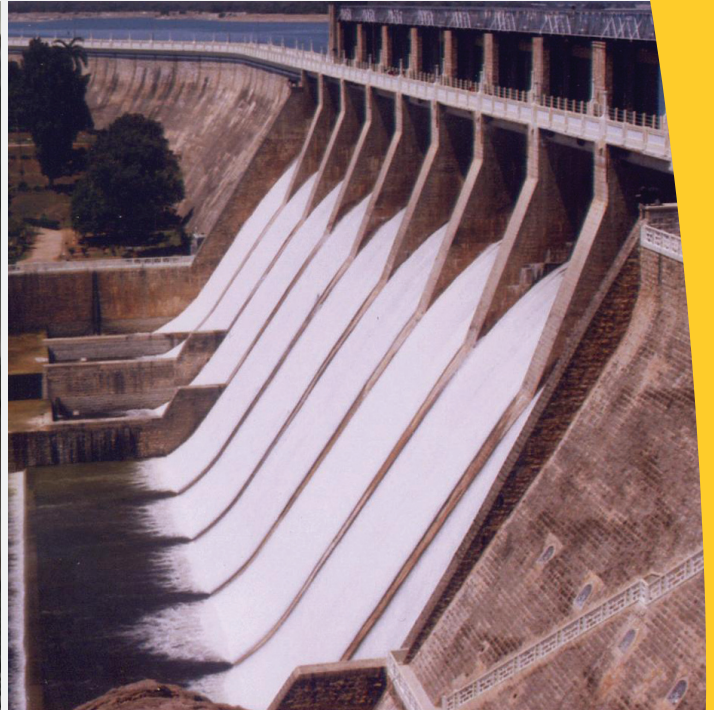


SUPER BRAND WITH SUPER PROTECTION AGAINST CORROSION - TATA TISCON CRSD



CORROSION – THE DEVIL WITHIN

Corrosion is the most deadly enemy of concrete structures. Wherever there is humidity, corrosion sets in steadily and destroys slowly, attacking houses, bridges, dams, industrial plants and just about any construction that has used concrete reinforced with steel. The peril of corrosion is detrimental to the inner strength of any concrete structure.



TATA TISCON CRSD – THE CORROSION FIGHTER

TATA Tiscon CRSD keeps corrosion at bay and protects the life of your structures. TATA Tiscon's Corrosion Resistant Super Ductile Rebars (CRSD) are best suited to resist both corrosion and damages caused by earthquakes. The TATA Tiscon CRSD with Fe 500D properties fights salinity in the air, sea-water, groundwater, moisture and acid particles in the air. Ordinary rebars on the other hand have a shorter life span.



TATA TISCON CRSD – AVAILABILITY

The unique protective chemistry of CRSD rebars not only resist corrosion but also prolong the life of concrete structures. TATA Tiscon CRSD Fe500D (grade of IS 1786:2000) rebars are available in the following sizes: 8mm, 10mm, 12mm, 16mm, 20mm, 22mm, 25mm, 28mm, 32mm, 36mm, 40mm



TATA TISCON CRSD – ADVANTAGES

- Longer life
- High yield strength coupled with superior ductility and bendability
- No extra operations required during fabrication
- Easy to weld
- Can be bent and rebent using a very small mandrel



TATA TISCON CRSD



BENEFITS OF CRSD OVER EPOXY & CPCC

The various differences between TATA TISCON CRSD, CPCC and Epoxy Coated Rebar are listed below.

Parameters	TATA Tiscon CRSD	Cement Polymer Composite Coating (CPCC)	Epoxy Coated Rebar
Corrosion Resistance Technology	Enhanced inherent immunity with special alloying addition	External coating that behaves more like a blanket cover	External coating that behaves more like a blanket cover/plant
Surface preparation	Not required	Surface cleaning efficiency is a critical factor	Not required
Coating holiday effect	No coating holiday effect due to inherent corrosion resistance	Detection and elimination of all coating holidays under suspicion. Pits and discontinuities can lead to severe pitting and corrosion at the uncoated site	Pits and discontinuities in the epoxy film can lead to accelerated corrosion at the uncoated site
Bond strength with concrete	Better bond strength with concrete	Bond strength may not be high due to external coating	Lesser bond strength compared to CRS due to external coating
Welding	No special care is required	Coating gets damaged during welding	Not advisable for welding as coating gets damaged during welding
Fabrication (cutting)	Normal practice as conventional rebar	Chances of cracking/flaking of coating while cutting.	Chances of cracking/flaking of coating while cutting Special tools needed for cutting to avoid damage in the vicinity of cut end
	No protection required at bear cut end due to inherent immunity	Exposed cut end does not have any coating from where corrosion can initiate	Exposed cut end do not have any coating from where corrosion can initiate
Bending	Normal practice just as for conventional rebar	There are chances of the coating getting removed during bending. Bending to be completed prior to coating	There is a chance that the coating may get disbonded during bending if quality of coating is not proper
Handling	No special handling required	Extensive special handling required	Special handling required on-site to avoid coating damages
Final inspection and repair on-site	Not required	Quality control is difficult. Final inspection is required to repair all the visible damages. Labour intensive and needs close monitoring	Inspection on-site recommended to detect and repair all the visible coating damages
Usage of tie wire, couplers	Uncoated tie wire/couplers can be used on-site	Pre-coated tie wire/couplers to be used	Pre-coated tie wire/couplers to be used



TATA
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