

1996 NOVA AWARD WINNER

NORCURE Electrochemical Chloride Removal System

The NORCURE system is a rehabilitation method to remove salt (chloride ions) from salt-contaminated concrete structures. The removal of chloride ions and the re-establishment of the passive oxide layer around the reinforcing steel eliminates or greatly reduces on-going rebar corrosion. Chlorides are drawn out of the concrete by applying a direct current electric field between a temporary anode at the surface of the concrete and the reinforcing steel within the concrete. Chloride ions migrate from areas near the reinforcing steel toward the anode and out of the concrete. At the same time as chlorides are being removed, hydroxyl ions are produced at the rebar within the structure and restore the highly alkaline environment around the rebar.

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