

MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



CASE HISTORY

Structural Repairs to Trinmar Platform 15

PROBLEM

Trinmar has extensive Offshore Oil Production in the Gulf of Paria in Trinidad and Tobago. Some of these production platforms are over thirty years old and chloride attack has caused extensive rebar corrosion to the piles and pile caps, resulting in spalling of the concrete.

APPLICATION

Cortec's HPRS™ was chosen for repair.

1. Spalling concrete was hydroblasted at 20,000 psi.
2. VpCI®-611 was applied to protect against rebar flash rusting.
3. MCI®-2023 Passivating Grout was applied to the exposed rebars.
4. MCI®-2020 was sprayed onto the spalled areas.
5. A tie coat of MCI®-2039 was brush applied for adhesion.
6. MCI®-2039 was then trowel applied in lifts of 2" and built up to 6" in some areas.
7. MCI®-2020 was then sprayed onto the entire surface.
8. After fourteen days, MCI®-2021 was sprayed on the entire surface.

CONCLUSION

The HPRS™ system has performed very satisfactorily for Trinmar. An extensive repair program for Offshore Platforms has been put in place and Cortec's MCI® HPRS™ repair system is specified.

DATE

July 2002

CUSTOMER

Petrotrin - Trinmar Operations
Mr. Ken McCree
Infrastructure Maintenance Coordinator
Construction Engineering & Inspection

CORTEC REPRESENTATIVE

Corrosion & Environmental Services Limited
Motilal Supersad

MAIN CONTRACTOR

AR Singh Contractors Limited

APPLICATOR

Corrosion & Environmental Services Limited

LOCATION

Trinidad, West Indies

PRODUCT

VpCI®-611, MCI®-2023, MCI®-2020,
MCI®-2039, MCI®-2021

See page 2 for photos of the process.

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Trinmar Platform 15



Piles being driven into the sea bed



Mixer and MCI® - Repair materials



MCI®-2023 rebar coating applied on Pile-cap



Pile-cap being repaired with HPRSTM™



MCI® - Tie Coat 2039