

MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



CASE HISTORY

Protection & Repair with HPRS® System



DATE

2005 - 2006

CUSTOMER

Port Ploce

LOCATION

Croatia

CORTEC® REPRESENTATIVE

CorteCros Co. LTD

PRODUCTS

MCI®-2023

MCI®-2020 Powder

MCI®-2006 NS

MCI®-2022

MCI®-EcoCure

MCI®-Architectural Coating

PROBLEM

For over 20 years Port Ploce had not received any maintenance to the modules and was in much need of repair and protection. Some parts of the modules were exposed to chloride, causing rebar corrosion and mechanical damage to the surfaces of the modules; which resulted in the spalling of the concrete.

APPLICATION

The concrete surface of the modules was prepared with a high pressure water jet, which removed the deteriorated material. MCI®-2023 was applied to the exposed rebar; and the entire concrete surface was treated with two coats of MCI®-2020 powder, diluted with water (1:4). The concrete surface and exposed reinforcing steel were then treated with repair mortar containing MCI®-2006 NS. The manual application was 1-3 layers depending on the total thickness of the mortar layer; in some areas the mortar was 8cm thick.

The concrete surfaces on the face side of the wharf were exposed to constant air circulation, causing the surface to dry too fast. To protect the surface until it was fully cured, one coat of MCI® EcoCure was applied. The wharf face of the surface was then treated with two coats of MCI® Architectural Coating in white.

The concrete surfaces on the soffit, and the interior of the structure were protected with a coat of MCI®-2022.


CONCLUSION

The customer was very satisfied with the application of the Cortec® HPRS® system, and the performance of the products. The Cortec® HPRS® system was an acceptable and effective system to protect and repair reinforced concrete structures.

4119 White Bear Parkway, St. Paul MN 55110 USA
Phone (651)429-1100, Toll free (800) 4-CORTEC
Fax (651) 429-1122, Email: info@cortecvci.com
www.cortecvci.com

ch312 4/2007

Page 1 of 2

Printed on recycled paper  100% Post Consumer

©2007, Cortec Corporation. All Rights Reserved. Copying of these materials in any form without the written authorization of Cortec Corporation is strictly prohibited.



