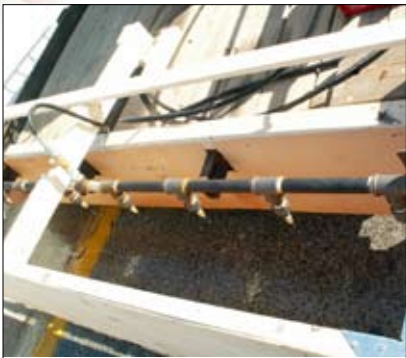


MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



CASE HISTORY

Francis Scott Key Bridge Repair



DATE

February 2008

DISTRIBUTOR

S.M.A.R.T. Distribution, N.A.

CONTRACTOR

Handon Service Incorporated

CUSTOMER

Maryland DOT

LOCATION

Baltimore, MD

PRODUCT

MCI®-2018



PROBLEM

The bridge was scheduled for maintenance repairs and re-application of a water repellent to ensure continued protection from the environment.

APPLICATION

Patching and repair work was completed. The day prior to the application of MCI®-2018, the deck was shot blasted, leaving a clean even surface for application. Before the application was started, the deck temperature was measured and found to be within the acceptable range of 40°F (4°C) and 100°F (37°C). A trailer carrying two totes of MCI®-2018 was equipped with spraying systems on the front and rear. Due to code restrictions, the sprayers could not be built big enough to spray the entire lane so the last two feet were sprayed by hand. Both methods achieved a wet-wet application that saturated the concrete a few minutes before drying giving time for the silane to sink in and react.



CONCLUSION

Cortec's MCI® 2018 was chosen over competitor material. It was shown to have the same or better performance. The MCI® 2018 went down easily with no problems, and is expected to protect the bridge from corrosion for the next 10 years.

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ch347 2/2009

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