

MIGRATORY CORROSION INHIBITOR (MCI®) PRODUCTS FOR CONCRETE



CASE HISTORY PENTAGON:

Restoration of all exterior walls

DATE

April 2003, ongoing for next 8-10 years

CUSTOMER

US Government

CORTEC REPRESENTATIVE

Neil Savitch, Construction Specialties, Mark Stover, PMPSI

SPECIFYING ENGINEER

Eric L Edelson, P.E.
Tadger-Cohen-Edelson Associates, Inc.

CONTRACTOR

Concrete Protection and Preservation

LOCATION

Washington, DC

PRODUCT

MCI® -2020 V/O

PROBLEM

Corrosion of embedded reinforcing steel was causing spalling on the walls. It was determined that the cause was carbonation to a 3.5 inch depth on the walls, which lowered the pH of the concrete.

APPLICATION

The repair design parameters included: a minimum 20 year design life, stop water absorption into the walls, must reduce or stop corrosion, and that the appearance of the walls be changed as little as possible, or not at all. The repair program prior to coating included 1,000,000 ft² of surface area with 200,000 ft² of hand patches.

CONCLUSION

MCI® -2020 V/O and Keim's Concrete Coatings were chosen to repair and protect the walls based on their 20 year warranties and the fact that together they could fulfill the other specified repair design requirements.



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