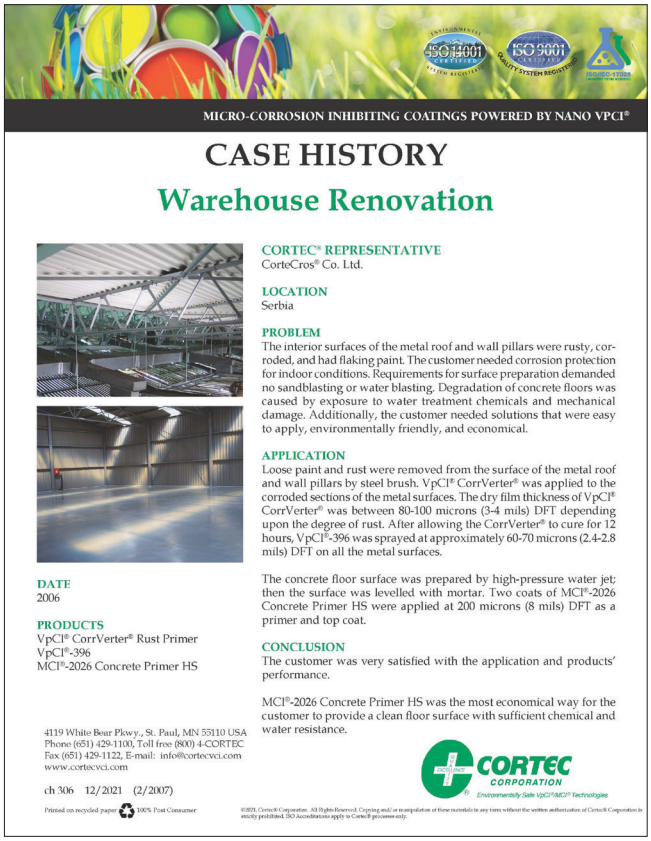
MICRO-CORROSION INHIBITING COATINGS POWERED BY NANO VPCI®

CASE HISTORY SPOTLIGHT

Case History #306: Warehouse Renovation



MICRO-CORROSION INHIBITING COATINGS POWERED BY NANO VPCI®

CASE HISTORY

Warehouse Renovation

CORTEC® REPRESENTATIVE
CorteCros® Co. Ltd.

LOCATION
Serbia

PROBLEM
The interior surfaces of the metal roof and wall pillars were rusty, corroded, and had flaking paint. The customer needed corrosion protection for indoor conditions. Requirements for surface preparation demanded no sandblasting or water blasting. Degradation of concrete floors was caused by exposure to water treatment chemicals and mechanical damage. Additionally, the customer needed solutions that were easy to apply, environmentally friendly, and economical.

APPLICATION
Loose paint and rust were removed from the surface of the metal roof and wall pillars by steel brush. VpCI® CorrVerter® was applied to the corroded sections of the metal surfaces. The dry film thickness of VpCI® CorrVerter® was between 80-100 microns (3-4 mils) DFT depending upon the degree of rust. After allowing the CorrVerter® to cure for 12 hours, VpCI®-396 was sprayed at approximately 60-70 microns (2.4-2.8 mils) DFT on all the metal surfaces.

The concrete floor surface was prepared by high-pressure water jet; then the surface was levelled with mortar. Two coats of MCI®-2026 Concrete Primer HS were applied at 200 microns (8 mils) DFT as a primer and top coat.

CONCLUSION
The customer was very satisfied with the application and products' performance.

MCI®-2026 Concrete Primer HS was the most economical way for the customer to provide a clean floor surface with sufficient chemical and water resistance.

DATE
2006

PRODUCTS
VpCI® CorrVerter® Rust Primer
VpCI®-396
MCI®-2026 Concrete Primer HS

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The interior metal roof and wall pillars at a warehouse in Serbia were rusty and had flaking paint; however, no sand or water blasting were allowed for surface prep. Additionally, the concrete floor was deteriorating from mechanical damage and exposure to water treatment chemicals. The customer needed an easy, environmentally friendly, and economical solution.

Restoration was done by removing loose paint and rust from the metal roof and pillars with a steel brush. CorrVerter® Rust Primer was applied to corroded surfaces, cured, and followed by a topcoat of VpCI®-396. The floor was water-jetted and levelled with mortar before applying two coats of MCI®-2026 Concrete Primer HS. The customer was very satisfied with the application and product performance. In particular, MCI®-2026 Concrete Primer HS was considered the most economical path to a clean, chemical/water resistant floor.

To read the full case history, please visit: https://www.corteccasehistories.com/?s2member_file_download=access-s2member-level1/ch306.pdf

Keywords: warehouse restoration, rusty surface prep, sandblasting alternatives, concrete floor coatings, anticorrosion coatings, chemical resistant coatings, coatings for metal, Cortec, VpCI, MCI

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