MICRO-CORROSION INHIBITING COATINGS POWERED BY NANO VPCI®

CASE HISTORY SPOTLIGHT

Case History #638: Corrosion Protection of Railway Electrical Piers

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CASE HISTORY

Corrosion Protection of Railway Electrical Piers

DATE
March 2019

CUSTOMER
Serbian Railways

LOCATION
Belgrade, Serbia

PRODUCT
CorrVerter® Rust Converter Primer
VpCI®-396 Aluminum

CORTEC® REPRESENTATIVE
CorteCros® Ltd. and CincarTradeColor Ltd.

PROBLEM
The customer needed to remove rust and protect the metal structure of 200 electrical piers from further corrosion at the Beograd and Zemun railway stations.

APPLICATION
The customer adopted CorrVerter® Rust Converter Primer as a substitute for conventional surface preparation methods (e.g., sandblasting) and chose VpCI®-396 Aluminum as a topcoat. After removing loose rust with a wire brush, workers applied CorrVerter® at 40-60 microns DFT with brush and roll. After at least 10 hours of drying, the workers applied VpCI®-396 Aluminum in two coats of 80-100 microns DFT each.

CONCLUSION
The customer was very satisfied with CorrVerter® and VpCI®-396 Aluminum as an economical and effective Cortec® coating system that provided a positive solution for protecting the metal structure of the pillars. Expected protection duration is 15 years.

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Two hundred electrical piers at two railway stations in Serbia needed rust removal and ongoing protection against corrosion. Rather than use conventional surface prep methods such as sandblasting, the customer opted to prime the surfaces with CorrVerter® Rust Converter Primer after removing loose rust with a wire brush. The CorrVerter® was given time to dry before top-coating with two coats of VpCI®-396 Aluminum. The customer was very satisfied with this system as a positive, economical solution expected to provide long-term protection for the metal pillars.

Read the full case history here:
https://www.corteccasehistories.com/?s2member_file_download=access-s2member-level1/ch638.pdf

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