



MICRO-CORROSION INHIBITING COATINGS POWERED BY NANO VPCI®

CASE HISTORY SPOTLIGHT

Cortec® Case History #449: Medieval Cathedral Restoration

The sacred and architectural significance of the medieval Zagreb Cathedral make it a major tourist attraction in Croatia. When reconstructing the south tower several years ago, workers discovered a number of rows of rusty steel bands that surrounded the tower. The bands were spaced 3 meters apart, about 10 centimeters below the surface. Visual damage was present at drainage areas.

The problem was taken to the Faculty of Mechanical Engineering and Naval Architecture, Department of Welded Structures, Department of Materials Protection team. After examining the rusted bands and performing experiments at their laboratory, they recommended removing loose rust, applying CorrVerte[®], and reinforcing the bands in damaged areas.

Two coats of CorrVerte[®] were applied to the rusty bands, which were then reinforced with steel fishplates also protected with CorrVerte[®]. The stones were then replaced around the bands. The corrosion solution met the project requirements of low cost and minimal intrusion and was deemed successful.

Read the full case history here: https://www.corteccasehistories.com/?s2member_file_download=access-s2member-level1/ch449.pdf



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



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