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**Attention: Editor**  
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**PRODUCT RELEASE**



MCI® Technology Used to Restore Historical Buildings in Europe:

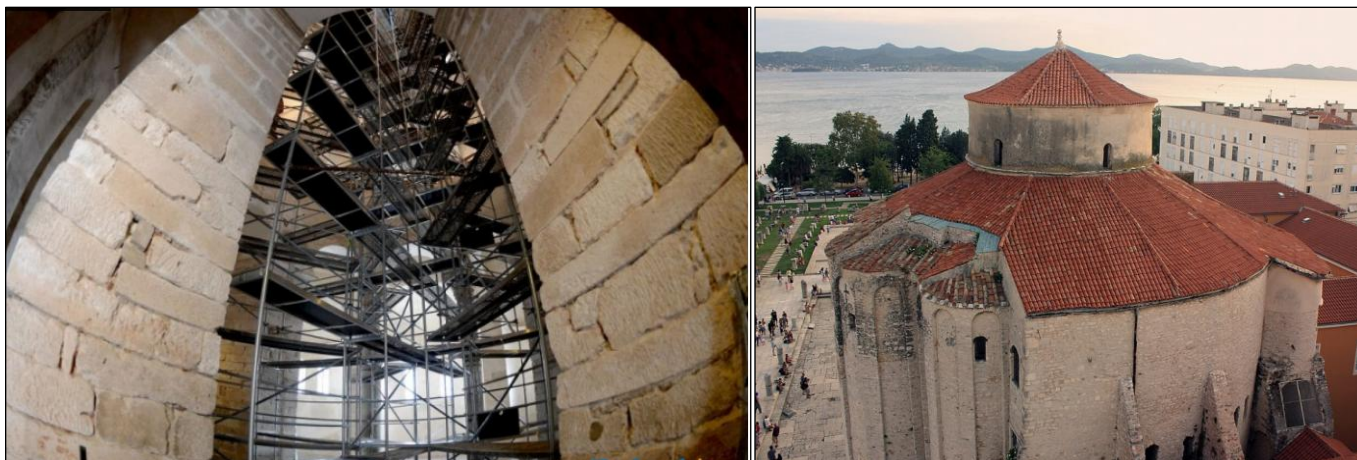
## Shielding the Past: Sustainable Solutions Restore Historic Monuments in Zadar and Ilok

Saint Donatus, the symbol of the city of Zadar, Croatia, is classified among the most famous and valuable monuments in Europe. Due to its unique cylindrical appearance and robust monumentality, it is one of the most significant European pre-Romanesque churches. As a protected cultural heritage site, it is listed in the Register of Cultural Goods of the Republic of Croatia and is under UNESCO protection. However, as a



result of numerous factors, this valuable monument required urgent rehabilitation. 3D scanning analysis determined that the most critical issues were the church walls, the main structure, and the roof. Historically, between 1927 and 1930, the stability of the foundation was compromised, leading to the

implementation of a reinforced concrete support structure under the roof on the south side, which connects the church's outer and inner rings.



Moisture penetrating into the medieval monument, combined with airborne sea salt, poses a serious threat to the reinforced concrete structure that supports the Church of St. Donatus

The reinforced concrete structure supporting the Church of St. Donatus was seriously threatened by moisture penetration and corrosive sea spray affecting the medieval monument. A repair project was initiated and Cortec's **MCI® 2020** inhibitor was specified as coating to protect support structure against corrosion. **MCI® 2020** is a surface applied corrosion inhibitor designed to migrate through even the densest concrete structures and seek out the steel reinforcement bars in concrete. Even when not in direct contact with metal, the product will migrate through concrete to provide full protection. This environmentally safe inhibitor stops further corrosion of reinforcing metals, significantly extending the service life of the structure.

## Renovation of Medieval City Walls of Town of Ilok,

The town of Ilok, Croatia, is a place steeped in rich history and cultural heritage. Its medieval fortress walls and royal castle are protected historical treasures, allowing visitors to truly step back in time. The tower walls have a square floor plan and rest on foundations made of broken stone. These walls are exposed to damaging atmospheric influences; over time, the mortar between the bricks has washed away, leading to the deterioration of the masonry. Restoration work on 'Tower Three' included strengthening the



foundations, rebuilding collapsed sections, and injecting cracks to restore structural integrity. The project involved the use of corrosion inhibitors to prolong the life of the structure. **MCI®-2005** was added to a new concrete foundation being used to support the old foundation. Special attention was given to protecting reinforcing metals in the concrete because of the new foundation's contact with the soil. Rather than using stainless steel reinforcement, the project opted for black steel reinforcement plus MCI®-2005. **MCI®-2018** was applied to brick walls.



Excavation and preparation for strengthening the medieval city wall foundations, featuring a new concrete foundation enhanced with Cortec's MCI®-2005 to support the historic structures.

As a Migrating Corrosion Inhibitor™ admixture, MCI®-2005 protects embedded metal reinforcement in the new concrete supporting the foundations. MCI®-2018 functions as a water repellent to help protect bricks and mortar from the effects of outdoor weather. Both products were simple additions to significantly improve the longevity of the restoration project without changing the structure's appearance. **MCI®-2005 is a USDA Certified Biobased Product.**



By integrating advanced MCI® technology into these historic restorations, Cortec® ensures that Europe's cultural treasures are not only repaired for today, but sustainably preserved for generations to come

*You can learn more about Migrating Corrosion Inhibitors (MCI®) here: <https://www.cortecmci.com/>*

*Keywords; MCI® technology, Migrating Corrosion Inhibitors, Cortec® MCI® 2020, Cortec® MCI®-2005, Cortec® MCI®-2018, corrosion inhibitors, historic preservation, heritage restoration, structural rehabilitation, concrete repair, St. Donatus Church, Zadar, Ilok medieval walls, cultural heritage, UNESCO, airborne sea salt, moisture penetration, extending service life, USDA Certified Biobased Product*

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