



Restoration News

A Publication of Cathedral Stone Products, Inc.

2nd Quarter 2017

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Photo by Clansophie/Creative Commons

In 1922, Canon James Townsend Russell became Rector of Bethesda in Palm Beach, Florida. It was his vision regarding the 'powerful force' Bethesda held in 'furthering belief' both nationally and internationally that inspired construction of this iconic sanctuary in 1925.

CSP and a Team of Artisans Bring Renewal to Bethesda-by-the-Sea

In 2014, Bethesda-by-the-Sea, an Episcopal Church in the town of Palm Beach, Florida celebrated its 125th year of worship. That same year, they began a critical and ambitious multi-year restoration project of their iconic clay tile and brick sanctuary.

The Reverend James R. Harlan turned to Contractor Greg Lewis, with whom the church enjoys a 20-year relationship, and his team of restoration experts from around the world. Lewis turned to Cathedral Stone Products for the Jahn restoration products that were critical to creating a fitting and lasting restoration.

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President's Letter



As a career mason, stonecutter, and as a Vietnam veteran, historic restoration and military service have special meaning for me. That's why I'm proud that the Governor has appointed me to the Governor's Commission on Maryland Military Monuments.

The Commission's volunteer members bring military, historical, business, and government expertise to the work of safeguarding our State's military monuments. For the next four years, I'll be ensuring that our military monuments are respectfully maintained and professionally restored.

Since 1989, the Commission's efforts have included memorials honoring the sacrifice Marylanders have made here at home and as far away as Gettysburg, Pennsylvania; Brooklyn, New York; and Stephenson, Virginia.

I look forward to continuing their important work.

Best regards,
Dennis Rude

New Look. New Names. Same Great Products.



Earlier this year, we rolled out new names and packaging for Cathedral Stone's Masonry Restoration Cleaning & Stripping and Repellant & Coatings Systems. While the look has changed, our product formulas remain the same. That means you'll continue to get the same great performance from all the Cathedral Stone Products you've come to depend on. For a helpful guide to our new product names, contact us at Info@CathedralStone.com. ■

Understanding and Addressing Efflorescence

What is efflorescence?

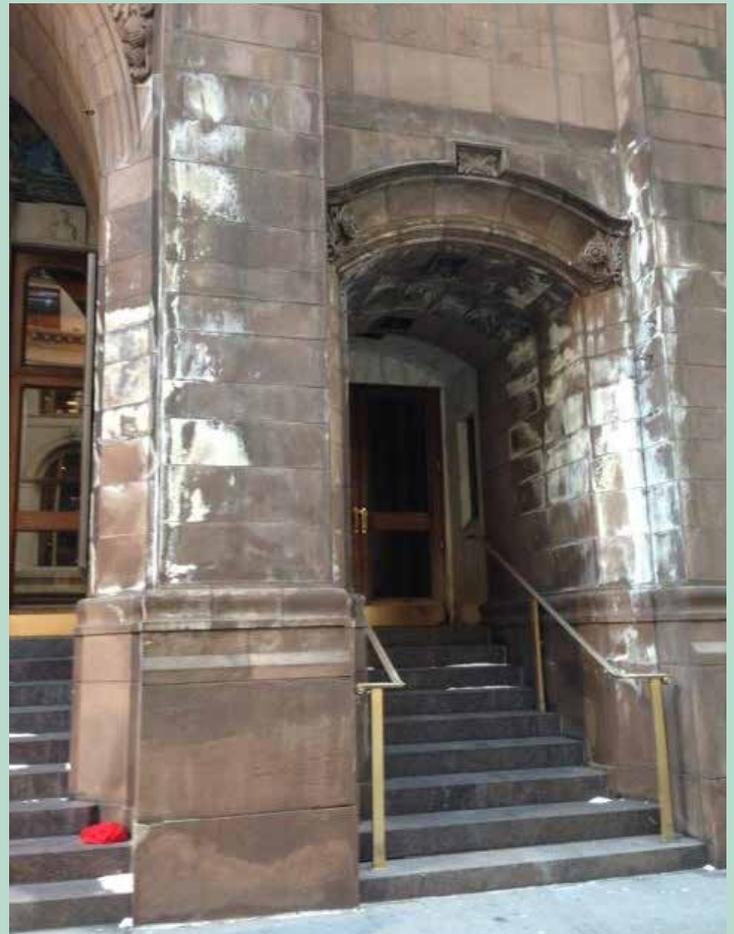
Efflorescence is the white, powdery deposit of water-soluble salts you often see on masonry as water evaporates. These efflorescent salt deposits often appear soon after the building is constructed, and at times, as long as a year after completion. You can brush it off, but efflorescence will return until you do something about the conditions that create it.

How efflorescence happens.

Soluble salts are present due to several factors. First, the aggregate and some admixtures of concrete and masonry contain salts and are introduced at the point the concrete is mixed. Salts are also introduced through sources like acid rain and absorption from deicing salts on highways and sidewalks. Once enough moisture accumulates within the concrete or masonry substrate, it begins to move through the masonry. The moisture eventually evaporates into the atmosphere as it reaches the surface. The salts then re-crystallize and accumulate on the surface, producing an irritating white deposit. A common mistake in attempting to remove efflorescence is by power washing. Applying water will once again dissolve the salts into solution, which is then reabsorbed back into the masonry substrate.

Conditions that create efflorescence.

1. There must be water-soluble salts present within the substrate of the wall.
2. There must be enough moisture within the wall to dissolve the salts into a soluble solution.
3. There must be a path for the solution to migrate through the substrate and to the surface where the moisture can evaporate, thereby allowing the deposited salts to crystallize.
4. There must be ample time for the accumulation of the crystalized salts for the efflorescence to become apparent. ■



Efflorescence Remover from Cathedral Stone Products.

Efflorescence Remover is a liquid cleaner that removes efflorescence, mortar smears, grout haze, hard water deposits, atmospheric staining, and others blemishes on the surface of masonry.



Features and Benefits

- Biodegradable
- Short dwell time
- Brush, roll or spray apply
- User friendly
- Neutralizes with water
- Safe on glass

CSP and a team of Artisans Bring Renewal to Bethesda-by-the-Sea

Continued from page 1

For Lewis and his team, preventative maintenance was at the heart of their efforts.

“Over the years, the water-proofing had deteriorated, and water went through. And that’s what caused the plaster to delaminate over the chapel and the wood to delaminate in the back of the church,” said Lewis.

In addition, the steel behind the stone had rusted, causing spalling. In some instances, the stone had begun to crack. In others, it had popped out completely. Lewis’ team cut the steel to sound material, rustproofed it, then restored the surface with Jahn mortar.

On some sections, the crew completed a full-face restoration, which involved removing a layer of stone using a diamond saw and chisel, setting pins in the stone, then applying restoration mortar to the entire area.

Artisans then stained the new surface using varied shades of mineral tints, and a great deal of artistry, to aesthetically match the restoration to the original stone.

In addition to the stonework, Lewis’ crew replaced the rotting wood and copper cladding on louvers in Bethesda’s bell tower.

Since its construction in 1922, Bethesda-by-the-Sea has welcomed thousands of visitors, who have taken time to pause and reflect in this place. According to Lewis, that tradition will continue well into the future. “Your building is structurally sound,” he assures Reverend Harlan. “It’s made of clay tile and brick and will be here forever.”

At Cathedral Stone Products, we’re pleased to know that our mortars will help protect and preserve that legacy. ■

“Your building is structurally sound. It’s made of clay tile and brick and will be here forever.”

Greg Lewis



Photo by Tom Fawls/Creative Commons

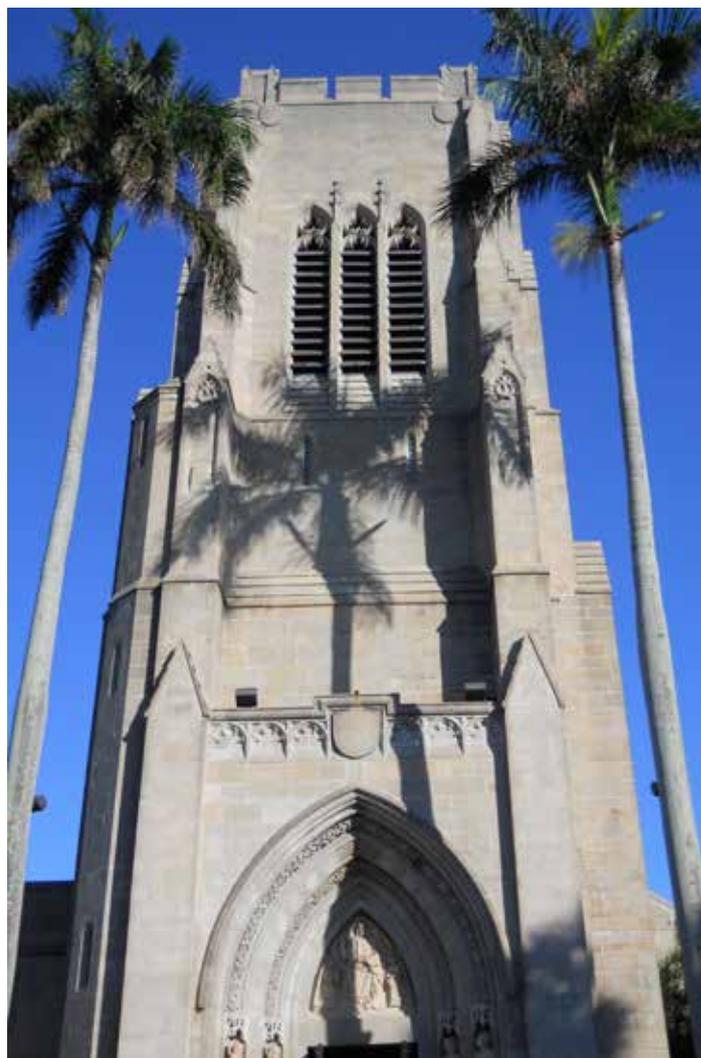


Photo by Clarosrophic/Creative Commons

Over the years, thousands of visitors have taken time to pause and reflect. Beautiful stained glass windows fill the visitor with awe as sunlight illuminates the brilliant colors, casting ethereal images in the shadowed church.

Training Schedules

Get an education in scientific masonry restoration.



Jahn Restoration Training Workshops

Three-day JAHN Restoration Training Workshops introduce traditional methods of masonry repair. Architects can receive AIA/CEU credits upon request. Certification by successfully completing the workshop is necessary to purchase mortars M70, M100, M120, and M160.

Visit www.cathedralstone.com/lms/CustCert/Training/ to register today.

June 12-14, 2017

Cathedral Stone Products, Inc.
7266 Park Circle Dr.
Hanover, MD 21076

July 17-19, 2017

Cathedral Stone Products, Inc.
7266 Park Circle Dr.
Hanover, MD 21076

“The course is very well structured. I like the way we started off with just a good overview of products, materials, and some of the challenges you get into. When you walk out [to the workshop], and do the hands-on session, it’s very different. But after a while, it starts sinking in as to why, what you heard originally, is so important to what you’re doing now.”

*Michael Purser
Atlanta, Georgia*

The Engineer’s Edge

Four Critical Factors for Lasting Masonry Repairs



Compatibility between restoration mortar and substrate makes the difference between a long-term restoration – and a quick fix that fails (and potentially causes more damage) in just a few years. Compatibility between repair materials and substrate is critical to durability.

Four Properties of Compatibility	
Permeability	Product must be similar or higher.
Adhesion	Bond must have similar properties to substrate.
Elasticity	Product should be similar.
Strength	Product must be lower.

Permeability. Despite some supplier’s claims of breathability, elastomeric coatings or polymer modified repair mortars don’t match the permeability of the substrate. They don’t allow moisture to escape rapidly enough to prevent freezing damage, or to allow the free flow of salts to the surface.

Adhesion. High adhesion rates for repair materials enable unskilled masons to install repairs, but their

bonding agents trap water and salts, which can lead to failure. Proper cementitious repairs develop a mineral bond. They create continuity between the repair and substrate that allows for compatible permeability.

Elasticity. Repair mortars should have similar expansion/contraction to the substrate. We test your masonry to establish those properties and provide a repair mortar that is compatible and prevents failure.

Strength. Repair mortars require lower compressive and tensile strengths than the substrate. Stone substrates have a greater degree of variability in strength. Manufactured substrates, such as concrete or brick, have less. We test samples from several different locations of your structure and base your mortar’s strength on the strength of the substrate.

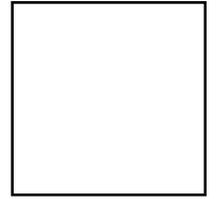
Jahn mortars are scientifically designed and customized to address these physical properties to ensure lasting restorations. ■



Cathedral Stone Products, Inc.

The leader in scientific masonry restoration

7266 Park Circle Drive
Hanover, MD 21076



National Chimney Sweep Guild Convention



Sales Representative, Zak Beach, talks about the benefits of Cathedral Stone Products, Inc. Latex 20 Heavy Duty Cleaner at the National Chimney Sweep Guild convention held March 15-18, in Louisville, Kentucky.

Upcoming Events

Please join us at the following conferences, trade shows & seminars.

Hannibal, MO
MAY 17-19, 2017

2017 Missouri Preservation Conference



Join Gary Keshner of Cathedral Stone Products on Thursday, May 18th from 8:30 to 11:30 at the Old Baptist Cemetery for a Stone Repair Workshop. You'll learn about the best practices for cemetery maintenance. This will include a hands-on demonstration of how to clean stones as well as a demonstration of stone patching and easy ways to level stones. This workshop is open to individuals of all skill levels.

The conference brings together historic preservation experts and people from across Missouri and surrounding states. It offers three days of workshops, tours of historic sites, networking, product news, and more.