



Project: Embry Riddle Student Residence Hall Phase II, Daytona Beach, FL.

Approved Contractor: Agantic Group, Jacksonville, FL

Celcore Incorporated News and Updates

In the last issue of the Celcore Newsletter, Volume 2, Issue 1, Celcore PVA Curing Compound (CCC) was highlighted. As all concrete experts agree, post placement curing is a sound construction practice for newly placed concrete. CCC promotes uniformed early strength development of newly placed Celcore Insulating Concrete, minimizes post placement drying shrinkage cracking, and assures that the deck has sound surface strength.

If you missed the last Newsletter, please feel free to view it at the link below.

- [Volume 2, Issue 1](#)

Should you have any questions about Celcore or any of its products, never hesitate to contact our office.

Celcore S-1 Deck Preparation Compound

Celcore's researchers are always working on solutions to confront the many new challenges facing our industry by the ever evolving, and increasingly stringent requirements of the governing building code. One such undertaking by our team was to develop a system that could be used enhance the bond characteristics of Celcore MF Cellular Insulating Concrete when placed upon steel deck and other parent deck types and/or placement surfaces. As a result of these efforts, Celcore is pleased to introduce our Celcore S-1 Deck Preparation Compound to its contractor group.

It is not uncommon for mill fresh decking to arrive at a jobsite having some degree of manufacturing residue. Examples would be residue from evaporative lubricants used during roll forming or the use of passivation treatments intentionally applied to the steel to reduce the possibility white rust staining during jobsite bundled wet storage. The deck manufacturers contend that if present, these residues or treatments are weakly bound and will dissipate quickly once the decking is installed and is exposed to the open environment. If however present at the time of placement, these substances can interfere with the bonding properties expected between the lightweight insulating concrete fill and the parent steel deck.

Celcore S-1 Deck Preparation Compound is an additive system designed to condition the surface of galvanized steel decking by disrupting any potentially hydrophobic property of manufacturing remnant residues and/or mill applied substances that could inhibit bond. Mild abrasives and binding polymers contained in Celcore S-1 mechanically scour and chemically bind the compound to the decking during the application process. The result is an assured bonding of the S-1 compound to the galvanized surface of the deck and a prepared surface for receiving the Celcore cellular concrete deck fill layer.

Celcore S-1 Deck Preparation Compound is applied to the parent deck as a fluid slurry and is then push broom or brush applied to a film thickness. A consistent film thickness allows the S-1 to uniformly bind to the surface of the parent deck as it air dries. The film is then reactivated when it is hydrated by the subsequent placement of cellular concrete deck fill. This prolonged re-wetting causes the consolidated cement component of the film to hydrate and begin a tenacious bond with the parent deck and the cellular concrete fill layer on the opposing side of the applied S-1 film.

[Click Here to View the Celcore S-1 Deck Preparation Compound Technical Bulletin](#)

With tremendous success, Celcore and its roof industry partners have tested a number of assemblies using Celcore S-1 Deck Preparation Compound on steel deck. These assemblies are now beginning to populate the various Product Approval databases that govern our marketplace. As a result, it is recommended that all Celcore Approved Contractors become equipped and proficient with the use of Celcore S-1. Celcore guidance and training for our valued contractors is available upon request.

As always, we would like to thank those that have shared these newsletters and encouraged their colleagues to sign up for future emails, and please, do not hesitate to suggest any topic you feel could benefit other approved contractors, the industry, and Celcore.

In Partnership,

Travis Morton

Design Professional & Contractor Support Manager

(828)669-4875 Office

(386)569-1261 Cell



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Celcore Incorporated

tmorton@celcoreinc.com

<http://celcoreinc.com/>