



**Project:** Florida Hospital for Women, Orlando, FL.

**Approved Contractor:** Deck Systems, Inc., Altamonte Springs, FL. **Project Manager:** Ken Poe

**General Contractor:** Brasfield & Gorrie **Architect:** HKS, Orlando

This recently completed 12 story 322 bed state of the art facility for women features high-wind uplift resistance, a U.L. fire rated design, and a high thermal resistance value at minimum R-30.

## Celcore Incorporated News and Updates

In the last two newsletters we discussed topics relating to fundamental practices that lead to solid quality control.

As shown in issue 2, a good day of production begins with properly diluted Celcore MF Concentrate and suitably calibrated foaming equipment. Proper mixing of the Celcore MF concentrate into solution ensures the quality and yield of the generated preformed foam, and daily foam calibration confirms that the foam generator system is working properly.

[Click Here to View Celcore MF Concentrate Mixing and Dilution Instructions.](#)

One of the most critical quality control steps of the placement practice is cast density sampling and the maintaining of accurate field density logs. Issue 3 provided direction for proper end-of-hose density checks and encouraged the drafting of field density logs.

[Click Here to View the Celcore Incorporated Quality Control Field Cast Density Log.](#)

As a reminder, please save and print this newsletter for future use, and should you have any questions or comments, please do not hesitate to contact our office.

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## **Celcore HS Rheology Modifying Admixture**

Always researching ways to make better cellular concrete, Celcore is pleased to offer our contractor group, Celcore HS Rheology Modifying Admixture. Celcore HS is a proprietary liquid admixture that is introduced by metering, into the mix water during batching of Celcore MF cellular concrete. Using relatively small dosage amounts, Celcore HS reduces the amount of mix water needed to make good pumpable and workable concrete, while significantly increasing compressive strength, without increasing density.

[Click here to View the Water to Cement Ratio of Celcore MF with HS to others in the Industry](#)

The need to meet the requirements of more stringent building standards has resulted in the use of higher compressive strength cellular concrete during Product Approval testing. For Celcore however, higher compressive strength does not mean increased cast density by using additional costly cement. Instead, Celcore HS efficiently uses the current cement factors of our standard mix designs to economically develop significantly greater compressive strength. Celcore HS dosages rates as low as 1-2 fl/oz per 100 lbs of cement can increase compressive strengths by as much as 20-30% over, same density, non-dosed Celcore MF mixtures. Mix water reductions of 10-15% are common. The superior hardened properties of Celcore MF with Celcore HS cellular insulating concrete will be difficult systems for others to compete against.

[Click here to View Compressive Strength Comparisons between Celcore MF with & without HS](#)

Celcore HS is recommended for use in any Celcore MF cellular concrete mix design. There are numerous benefits achieved by doing so. Notably however, any roof deck assembly where the specified 28 day compressive strength is required to exceed a minimum 300 psi, the addition of Celcore HS shall be considered a Celcore requirement. Celcore, along with its roof industry partners, have tested numerous Celcore MF with Celcore HS cellular insulating concrete roof decks assemblies with much success. These assemblies, along with other "to be announced" Celcore technologies, are now beginning to populate the various Product Approval databases that govern our marketplace. It is recommended therefore, that all Celcore Approved Contractors, become equipped, skilled and proficient with the use of Celcore HS Rheology Modifying Admixture in Celcore MF cellular insulating concrete. Celcore guidance and training for our valued contractors is available upon request.

Celcore's greatest asset is our relationship with our Approved Contractors, and if there is anyway we can help you be more successful, please do not hesitate to contact us. If the beginning of the year is any indication, 2016 can be a terrific year. Lets work together to make it the best that we have had in a long time.

As always, please feel free to share these newsletters with your other colleagues and encourage them to sign up for current and future emails.

Sincerely,

**Travis Morton**

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