Volume 2, Issue 4

Project: Margaritaville Beach Hotel, Jacksonville Beach, FL.
Approved Contractor: iCrete, LLC, Winter Park, FL.

Celcore PVA Curing Compound

As the summer months approach, we here at Celcore, Inc. believe it is important to revisit the topic of proper curing of lightweight insulating concrete. Curing with Celcore PVA Curing Compound (CCC) is a specified step in the Celcore placement practice in all situations, but in the summer months, it becomes even more important. The higher temperatures and long days associated with the summer months can have a considerable impact on a deck's hardened properties making proper curing essential. This is particularly important in situations where the waterproofing roof cover will be adhered to the roof deck's surface. Further, proper curing, followed by timely installation of the waterproofing

roof cover serves to minimize the amount of drying shrinkage cracking that will ultimately occur in the roof deck placement topping.

Celcore PVA Curing Compound (CCC) is a proprietary product produced by Celcore Incorporated and is intended for use on all Celcore Insulating Concrete roof deck placements to support proper curing. 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. All concrete experts agree that post-placement curing is a thorough construction practice for newly placed concrete.

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Following topping placement, Celcore PVA Curing Compound shall be applied to the deck surface as early as is practical once the deck topping has developed strength sufficient to support foot traffic without damage (typically the morning of the day following topping placement). Application delays diminish the effectiveness of timely curing. The deck surface shall be clean and free of loose debris prior to application. Wetting the deck surface with water prior to the application of curing is recommended. CCC shall be liberally applied to the wetted deck, most effectively by being pumped and spray applied using a garden hose nozzle. Operations properly configured are commonly able to wet and cure a day's placement in 20-30 minutes time. Application by way of pump spray bottles is time-consuming and generally considered inadequate and ineffective.

Notably, CCC is a "curing compound". It is not a "sealer" as it is sometimes improperly described. It does not provide any measurable waterproofing protection to the installed roof deck. Following proper placement and curing, an installed roof deck shall be considered adequately cured to receive its protective waterproofing roof cover within 3 - 5 days. Therefore, beyond the aforementioned open-air cure period, prolonged uncovered exposure of an installed system beyond that required to properly install the above deck waterproofing cover is explicitly discouraged and shall be considered an abuse of the insulation by Celcore. Installation contractors are encouraged to seek letter statements from Celcore when situations of unnecessary, prolonged, uncovered deck exposure arise. The combination of proper post placement curing and the timely subsequent installation of the waterproofing roof cover shall be considered required construction sequencing.

In summary, timely curing is an effective means to minimize drying shrinkage, cause uniformed strength development within the topping, and promote sound surface strength adequacy. Thereafter, timely installation of the waterproofing roof cover provides further assurance for a quality job outcome. Should there be a need for additional information or if there are additional questions, please do not hesitate to contact Celcore, Inc...

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In Partnership,

Travis Morton
Design Professional & Contractor Support Manager
(828)669-4875 Office
(386)569-1261 Cell

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