



## Technical Bulletin

### Single Ply Cure and Cover Guidance

#### NEW CONSTRUCTION

In a typical ambient curing environment, roof cover application upon a newly placed cellular insulating concrete deck may begin after (3 - 5) days of open air cure. Once under cover, the moisture content within the fill will continue to decline as it becomes chemically bound with the hardening cement hydrate. This moisture is contemplated by design and allows the concrete to continue developing strength. Prolonged periods of roof deck exposure beyond the aforementioned, for drying or any other unnecessary purpose, is explicitly discouraged. The timely installation of subsequent roof cover also serves to minimize the ultimate amount of drying shrinkage cracking a deck placement will exhibit.

#### SITE CONDITIONS

During roof cover installation, the insulating concrete deck surface shall always be free from debris, visible wetness, dew and frost. Dew upon surfaces other than the roof deck may indicate an ambient environment too close to dew point for work to proceed. When using for example, solvent based adhesives, evaporative cooling can cause condensation to form on the adhesive layer being applied to the insulating concrete deck. In such conditions, roof cover application should be postponed until conditions improve.

#### COVER INSTALLATION FOLLOWING A RAIN EVENT

Celcore is often questioned on how roof membrane installation may proceed following a rain event. Cellular insulating concrete is a generally water resistant material. When rained upon, the surface of the roof deck will show a uniformed discoloration. Upon improved weather conditions, the deck will return to its lighter, normal coloration as the surface naturally dries. It should be considered a typical observation that moisture shadowing may be slightly more persistent along surface cracks and around penetrations. Observation is the recommended method for determining roof deck, roof readiness. Once the deck has re-acquired its uniformed dry appearance, including the disappearance of shadowing along cracks and around penetration, the deck should be considered suitable for the resumption of roof cover installation.

#### CONDITIONS OF USE

The information provided by this Bulletin is intended to be considered for use in conjunction with all guidance and installation instructions provided by the roof cover manufacturer. Where this guidance may conflict with information from the roof cover manufacturer, the roof cover manufacturer's guidance shall apply.

END OF SECTION

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