

POWERBOND®

POWERBOND CUSHION OVER HIGH MOISTURE SUBSTRATES

Tandus Centiva Powerbond Cushion products have established a record of successful installations over high moisture substrates that spans several decades. This long standing record of achievement serves as the foundation for the industry leading initiative to eliminate requirements for moisture vapor emission (MVER) rate and relative humidity (RH) testing for Powerbond Cushion installations provided that no free liquids are present and that no moisture stained concrete is evident.

In an effort to promote a better understanding of the science behind the ability of Powerbond Cushion to perform under high moisture conditions and to provide authoritative third party confirmation of these properties, Tandus Centiva has enlisted the services of CTL Group, the premier concrete testing and research facility in the United States. CTL Group has conducted extensive testing of Powerbond Cushion over high MVER and RH concrete slabs in a laboratory setting over a period of approximately two years. This research has led to the following findings.

In real world conditions, moisture vapor emissions from concrete substrates occur due to the natural process whereby the moisture in the ground beneath the slab migrates towards the drier air above in an attempt to reach equilibrium. CTL Group has simulated these high moisture conditions with Powerbond Cushion installed over test concrete pads which include the ability to measure RH levels within the concrete as well as the interstitial space between the surface of the concrete and the Powerbond Cushion.

NO SWEAT, NO TESTING

- No MVER testing
- No RH testing
- Welded seams create a wall-to-wall moisture barrier

POWERBOND IS IMPERMEABLE TO LIQUIDS.

800.248.2878
tandus-centiva.com

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Powerbond® Freeform® Modular Broadloom Woven LVT

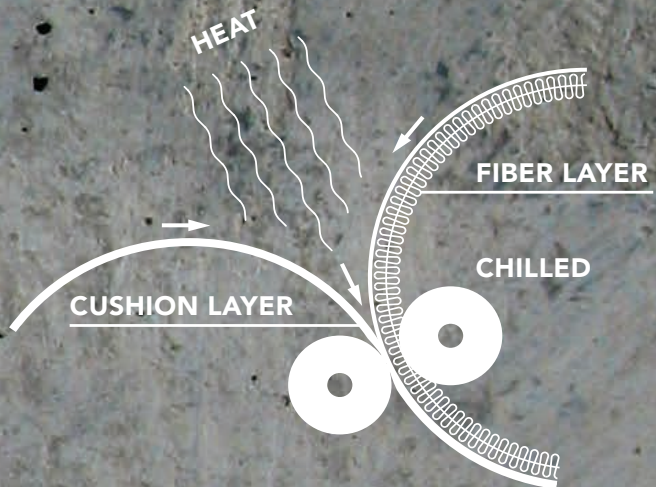
Powerbond Cushion is impermeable to free liquids but does exhibit a degree of permeability to water vapor. When installed over concrete with very high MVER and RH levels, the Powerbond Cushion insulates the moisture in the slab from the drier air above and thus interrupts the natural process whereby such a system would otherwise seek equilibrium. This insulating effect causes the movement of moisture vapor from the slab to slow to a rate roughly equal to the permeability of Powerbond Cushion. This low level of vapor emission migrates through the Powerbond Cushion and dissipates harmlessly into the drier air above.

This process eliminates the accumulation of moisture beneath the Powerbond Cushion and thus avoids contributing to conditions favorable to microbial growth. The Powerbond Cushion is thereby able to coexist with the high moisture conditions and provide stable and reliable performance over the long term.

VAPOR TRANSMISSION MANAGEMENT

Powerbond Cushion insulates the concrete floor from the atmosphere in the room, significantly slowing vapor transmission.

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MANUFACTURING PROCESS

