



NATIONAL TERRAZZO & MOSAIC ASSOCIATION

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TECHNICAL BULLETIN #T-3

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(Formerly TB#04)

MOISTURE VAPOR TRANSMISSION FOR EPOXY TERRAZZO

Moisture vapor transmission (MVT) tests should be performed on all slabs that are to receive epoxy terrazzo. HVAC systems should be in full operation for test results to be valid. . In order to obtain predictive results, the test must be conducted at use temperature and humidity.

The preferred test is the ASTM-F-2170 deep probe test. The threshold is commonly 75% to 80% relative humidity.

In some cases, such as a post-tensioned slab, the ASTM-F-2170 cannot be done. In these cases, the ASTM-F-1869 Anhydrous Calcium Chloride test is performed. The MVT should be below 3 lbs. per 1000 sq. ft. /24 hrs.

Thresholds and readings should be confirmed with the resin supplier

The ASTM 1869 Anhydrous Calcium Chloride test is not recognized as valid for lightweight aggregate concrete.

MVT or RH above the threshold values mentioned above has been known to result in blistering and or even result in a loss of bond of epoxy terrazzo floors.

Record the ambient temperature and humidity during the test period.