

Moisture Vapor Transmission Rate

Professional Consultants PROCON provides specialized technical consulting for concrete, coatings, ceramic tile, stone design and construction.

PROCON maintains sophisticated equipment and has specialized knowledge for measuring and interpreting the moisture vapor transmission rate through concrete slabs.

Applicable industry standards:
ASTM F 1869-04
ASTM F 2170-02
ASTM F 710
ASTM E 1907



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PROCON utilizes moisture vapor detection devices to detect and avoid costly failures of moisture sensitive finishes such as the limestone tile shown above. Failures of cementitious overlays, coatings, membranes, resilient, wood and ceramic / stone tile floor assemblies are often the result of an excessive moisture vapor transmission (MVT) rate through concrete slabs. PROCON utilizes both anhydrous calcium chloride and digital electronic relative humidity probe equipment to provide accurate measurement and analysis of MVT in accordance with ASTM F 1869-04 and F 2170-02 test protocol.

Excessive MVT can occur either from internal residual moisture in concrete, or from external sources, such as high subsurface water conditions and water infiltration. Deterioration of materials can occur as a result of both exposure to moisture, as well as damaging high pH (alkalinity) levels caused by elevated MVT.



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