

Concrete, Coatings & Tile Adhesion

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 in-situ adhesion and cohesion of construction assemblies using the direct tension method.

Applicable industry standards
ASTM C 1583 ASTM C 321
ASTM D 4541 ASTM D 5064
ACI 503-30
ISO 4624
BS 1881



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PROCON utilizes precision digital hydraulic load testing equipment

Failures of cementitious overlays, coatings, and ceramic / stone tile floor and wall assemblies are often the result of inadequate cohesive strength of substrates or inadequate adhesive strength at interfaces of various layers in the assembly. PROCON utilizes sophisticated equipment and trained technicians to measure the in-situ tensile strength of construction assemblies using the direct tension method.

In addition to providing objective, quantitative information on material cohesion or adhesion, direct tension testing also provides a qualitative assessment of the entire assembly cross-section.

The direct tension method is a widely accepted and standard method for testing of concrete and cementitious overlays, as well as paints, coatings and membranes. PROCON has also pioneered application of this test method for the tile industry, and has been instrumental in developing both quality assurance and forensic programs for building construction contractors, development companies, architects, and building owners.