

IFTI

INDEPENDENT FLOOR
TESTING & INSPECTION

CERTIFIED REPORTING



AVOID FLOORING FAILURES.

You can't foresee every construction problem, but with IFTI you can greatly reduce the risk of moisture-related floor covering failures.

National independent testing and certification of moisture-related issues, from pre-floor covering concrete slab testing to post-floor covering root cause failure analysis and recommendations for cost-effective solutions.





IT ALL STARTS HERE

Concrete slab moisture.

In the event of a high water-to-cement ratio concrete mix, and poor curing practices, the concrete slab can become overly porous. As a result, the “capillaries” within the concrete can remain connected, increasing the permeability of the concrete slab, and consequently increasing the likelihood of moisture movement up through the slab.

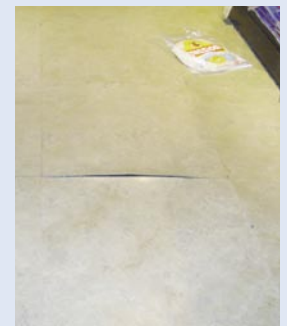
And in the event of a highly permeable concrete slab, in contact with moisture under the slab, this condition allows water to migrate into the concrete. In the absence of an intact vapor barrier/retarder, and a suitable capillary break beneath the concrete slab, natural sources of moisture, like naturally occurring ground water, capillary rise or osmotic pressure, can become a problem. Artificial sources of moisture like irrigation problems, incorrect exterior grading or breached plumbing can also become a problem.

WHEN THINGS GO WRONG

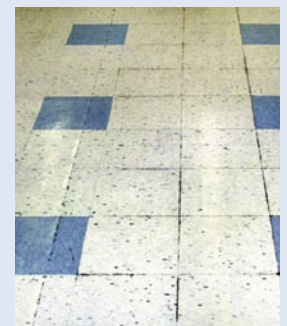
Moisture-related floor covering failure.

Once moisture is in contact with and migrates into a concrete slab substrate, it is typically in a static liquid form. When the building climate control system is activated, the static moisture can become dynamic and move out of the slab in the form of a vapor. And as moisture vapor passes through a concrete slab, it can collect and condense (it turns from a gas to a liquid) beneath a floor covering at the adhesive bond line. This relatively inert moisture can compel soluble salts (efflorescence, alkaline salts and/or other contaminants from the ground or the concrete itself) to also move to the surface and collect at the adhesive bond line, raising the alkalinity to damaging levels. This condition ultimately causes adhesive re-emulsification and bond-failure problems due to excessive alkalinity and/or other soluble salts.

Curling tile



Oozing adhesive



Alkalinity damage



**MOISTURE RELATED FLOOR COVERING FAILURES
MEAN COSTLY REPAIRS AND UNFORESEEN LIABILITIES**

IFTI: ASSURING YOUR CONSTRUCTION INVESTMENT

Accurate, independent testing that saves you time and money.



Nationwide On-Call Service

IFTI Service Associates can answer any of your questions and schedule testing and inspection services to match your time-frame anywhere in the nation.



Consistent and Precise Data Collection

An IFTI trained field technician will report to your job site with the latest in diagnostic test equipment to assure data integrity and efficient, accurate and complete test results.

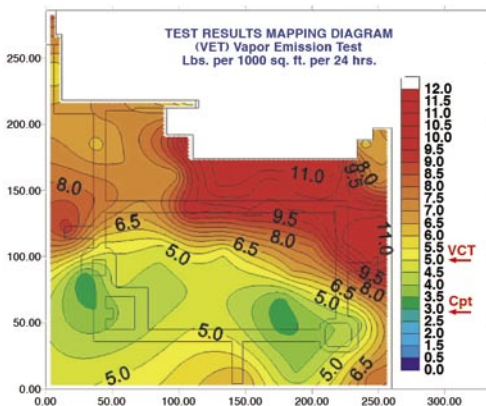


Certified Reporting and Reliable Solutions

IFTI can provide you with a certified moisture test data report or a more comprehensive investigation and resolution report particular to your specific problems, including the latest in pin-point diagnostic contour mapping.

Precise Full Color Diagnostic Mapping

IFTI's Test Result Mapping Diagram shows exactly where the problems are



IFTI uses state-of-the-art mapping technology to:

1. give our consultants a visual pinpoint depiction of problem areas, and 2. provide our clients with a clear, meaningful understanding of the conditions noted in the Investigation Report.



ASTM F 1869 ASTM E 1907
ASTM F 2170 ASTM F 710

We follow all certified practices of the ASTM International, the leader in standards for construction materials worldwide.

THE COMPANIES WE KEEP

For many businesses, moisture testing is now a standard practice prior to any floor installation.

Retailers own the "lion's share" of flooring in the USA, and because they experience high consumer traffic and require a warm, comfortable, inviting environment, they have endured millions of dollars in floor failures. This has stimulated a "rethink" of the status quo to an efficient, more economic way to reduce these costly failures. As a result, more retailers, hospitals, schools, municipalities and residential builders now incorporate moisture testing *as a standard practice* before installing any flooring on a concrete slab!



SAFeway
FOOD & DRUG



WAL*MART®

Longs Drugs

BED BATH &
BEYOND®

ROSS Sears
DRESS FOR LESS

IFTI

INDEPENDENT FLOOR
TESTING & INSPECTION

CERTIFIED REPORTING

Nationwide Service

We provide certified reporting services & testing nationwide that include but are not limited to:

- Concrete Slab Moisture Testing
- Alkalinity (ph) Testing
- Certified Flooring Inspections
- Certified Testing Analysis & Reporting
- Risk Assessment and Repair Options
- Expert Legal Testimony
- Nationwide Service
- ASTM Designation Clarification

ASTM Designations

ASTM F 1869

Measuring moisture vapor emission rate of concrete subfloor using anhydrous calcium chloride

ASTM E 1907

Determining moisture-related acceptability of concrete floors to receive moisture sensitive finishes

ASTM F 2170

Determining relative humidity in concrete floor slabs using in situ probes

ASTM F 710

Preparing concrete floors to receive resilient floors

Legal Support

IFTI provides professional counsel, certified testing & inspection reports, and/or expert witness testimony.

Our support services have expedited resolution of many claims and strengthened court cases that have gone to trial.

Solving your problems with precise and comprehensive testing

Independent Floor Testing and Inspection Inc. (IFTI) provides the most comprehensive and reliable National Certified Diagnostic Service (Concrete Slab Moisture Testing and Floor Failure Analysis) available that sets the standard for excellence and integrity in our industry. One guiding principle that we live by is that all work will be performed with the diligence and integrity necessary to pass scrutiny and challenge, in a Court of Law.

Most of our clients (Safeway, Sears, Ross, Wal-Mart, Bed Bath & Beyond, Rite Aid, Longs, etc.) have previously experienced the pain and frustration of limited service coverage, fragmented data, untimely inconsistent reporting, and questionable solutions. This is why we at IFTI have created a system and methodology that produces a more consistently reliable, cost efficient, certified reporting service that is "On-Time, Every-Time" anywhere in the USA.

Call us today to find out how we can assist in assuring your construction investment, fast and effectively!

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