



Test Method for Indicating Moisture in Concrete

Materials

Transparent polyethylene sheet, commercially available, 18" x 18", minimum 10 mils thick, tape edges.
Duct tape, good quality that will adhere to the substrate, 2 in. wide is suggested.

Optional test materials:

Flooring material to be installed, and the appropriate recommended adhesive, 18" x 18", edges must be taped (as recommended by Armstrong).
Clear Plexiglas, , 18" x 18", edges must be sealed by plumbers putty (as recommended by Carpet Rug Institute, CRI).

NOTE: Concrete treated with MOXIE 1800 SUPER-ADMIX produces an impermeable, non-porous and non-absorptive surface; therefore, all products considered for the project must be applicable for use, compatibility, curing aspects and properties for the application over an IMPERMEABLE, NON-POROUS and NON-ABSORPTIVE surface, additionally, concrete is void of any free lime. Some patching materials, as well as surface applied coloring agents, cannot be applied over non-absorptive surfaces or those void of free lime. When flooring is to be installed and a "wet set" adhesives is being used they must develop "tack" or "flash," prior to the installation or they will not adhere properly or cure and appear to have characteristics of moisture migration. Most manufacturers require an adhesive trowel with less notch depth and spacing when used for application over impermeable surfaces. The surface of a slab placed with MOXIE 1800 SUPER-ADMIX will not absorb any of the liquid carrier from the adhesive.

Ambient temperature must be AT LEAST 70° F, OR 15° F GREATER THAN THE SLAB TEMPERATURE, FOR A MINIMUM OF 30 DAYS PRIOR TO THE COMMENCEMENT OF TESTING. Any parting or curing compound must be removed a minimum of 30 days prior to testing as well. Any other conditions must be within the established parameters, as recommended by the manufacturer, for application of the coating, paint, surface treatment, or flooring system and adhesives. Protect test areas from direct sunlight and damage; reliability of test results will be affected. Clear membrane may be protected by covering with a protective cover such as cardboard, carpet, or rubber mat. Water to cement ratios greater than .54, or more, and curing or parting compounds will dramatically delay the proper hydration of the slab and chemical reaction of MOXIE 1800 SUPER-ADMIX. Refer to the MOXIE International publications, "Moisture Migration Table & Graphs". A visqueen vapor barrier will further delay the hydration process for several months.

Procedure

Tape a segment of clear visqueen membrane, approximately 18" x 18", tightly to the concrete surface making sure that all edges are sealed. Allow plastic sheet to remain in place a minimum of 72 hours, 7 days is preferred. Test areas may be left in place for one week or longer depending on time constraints. The use of a heat lamp is recommended to force moisture movement. After the allowed time has elapsed, visually inspect the clear membrane or Plexiglas, and note the presence, if any, of visible moisture or condensation. A dew point hygrometer may also be used for quantitative results. Do not confuse a clean area for a damp area. Duct tape will remove surface dusting and appear lighter, making the area under the membrane appear darker by comparison. Upon removal, there should be no visible condensation, dampness, discoloration or an odor of dampness from the slab under the test membrane areas. The presence of the membrane will protect that area from dust and dirt and appear darker.

Sampling:

Floors - One test area per 500 square feet (46 square meters) or portion thereof, of surfaces unless otherwise specified.
Walls and ceilings - One test area per 500 square feet (46 square meters) or portion thereof, of surface area unless otherwise specified. The recommended practice is a minimum of one test for each 10 feet (3 meters) of vertical rise in all elevation starting within 12 in. (300 mm) of the floor.

Form Requirements

The general contractor, foreman, or technician on the project must certify results and initial EACH space provided for each test membrane. Original forms must be forwarded to MOXIE International. Hash marks are acceptable for repetitive results. Temperature and humidity MUST be recorded.

Certifying Signature \_\_\_\_\_ Date \_\_\_\_\_

Name \_\_\_\_\_ Company \_\_\_\_\_



### Test Method for Indicating Moisture in Concrete

PROJECT:  
 ADDRESS  
  
 PHONE  
 FAX  
 CONTRACTOR:  
 SUPERVISOR/FOREMAN  
 PHONE  
 FAX:

REPORT DATE  
 LOCATION:  
 AREA 1:  
 AREA 2:  
 AREA 3:  
 ARCHITECT/ENGINEER:  
 PHONE  
 \* TEMPERATURE  
 \* HUMIDITY

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