

Moisture Emission Test Kits

ASTM F 1869

INTRODUCTION:

These instructions are a guide for the general use of this apparatus. For specifications and complete test protocol, please refer to ASTM F 1869.

PREPARATION:

Required Tests

3 kits for areas up to 1,000ft² or less, additional test (1) for each 1,000ft² area following.

Conditions Required

Conditions in building interior must consist of temperatures between 65°—85°F. Relative humidity shall be between 40—60% for time period of at least 48 hours prior to testing. Temperature and relative humidity data should be recorded.

Surface Preparation

For proper removal of surface contaminants and foreign residue, OSHA approved practices are strongly recommended. Cleansing of concrete surface may be obtained through professional use of a grinder or coarse sand paper.

Prepare/Schedule Testing Area

A minimum of 20x20in of surface area should be thoroughly cleansed before testing. Please allow up to 24 hours before the tests are set. Tests must remain undisturbed for 60—72 hours. Preparation of tests in area under direct sunlight is not recommended.

OPERATING INSTRUCTIONS:

1. Weigh and Record Calcium Chloride Dish
Remove test dish from the silver package. Weigh and record the starting weight to the nearest 1/10g on chloride dish. Record location, time and date of testing.
2. Remove Sealing Tape
Slowly remove black tape from dish and stick directly on dome for future use. Apply gray tape on the outer wall of the dome for better results. Remove cover of dish, exposing calcium chloride. Place cover under test dish to reuse after conclusion of testing. On the prepared concrete slab, place opened container.
3. Install Test Kit
Remove white paper from sealing adhesive and dispose. Avoid spilling the calcium chloride. Spillage will require a new dish to



be opened, since a required amount of material is needed for valid testing. Promptly place the dome over the test dish. Firmly press along the edges of the sealing adhesive to ensure proper bonding of the unit to the floor. To ensure no air is able to exit from the enclosed area of test dome, lightly press the top of the dome with your hand.

4. Test Undisturbed for 60—72 Hours
Once the dome is installed, it must remain undisturbed with no exposure to direct sunlight. If dome damage occurs, but no air leaks are detected and calcium chloride material is intact, results may be valid. After 60—72 hours of testing, carefully remove dome and remove the open dish. Immediately replace the dish cover and reseal with the provided gray tape, avoiding spillage of the calcium chloride.
5. Weigh the Dish
Weigh the sealed dish on the same gram scale used at the beginning of the test. Record final weight, time and date, and test location. Remove soft adhesive from concrete surface.

(Continued on back.)

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