

**NEW**



# Moisture Test Kit for Calculating Vapor Emissions

Alpha® has recognized the growing concerns of floor covering industry professionals which involves the condition of the subfloor and most specifically, the “invisible” moisture emission and its effect on the finished layer. The Alpha® solution for this is the “Moisture Test Starter Package”. This kit includes an Ecogrinder, to prepare a virtually dust-free concrete slab surface without a vacuum, a Calcium Chloride Moisture Test Kit (5 packs) and a Digital Scale. According to ASTM F 1869, the moisture test is a required process for any commercial floor covering installation. Although the general contractor, the builder, or the owner should be the responsible party for random Calcium Chloride tests, a tile contractor should take the proactive steps to perform the test for the additional revenue and peace of mind.

**MOISTURE TEST STARTER PACKAGE**



**MOISTURE TEST KIT**



PART NO.	DESCRIPTION
MTK005	Moisture Test Kit (5pcs)
MDS002	Digital Scale 200gm Capacity
5480-1900	Moisture Test Starter Package (inc. Ecogrinder, Moisture Test Kit & Digital Scale)



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# step by step instructions

## STEP 1

Use Alpha® Ecogrinder (with dust carriage attached) to remove any foreign objects and dust from the concrete surface to insure proper adhesion of the sealant. Strictly follow guidelines given by Occupational Safety & Health Administration (OSHA).



## STEP 2

Weigh the container with the vinyl tape seal at the test location immediately prior to initiating the test (W1).

Note: Be sure the scale is set to grams, ounce scales will not work for this test. Weigh to the nearest 0.1 gram and note this initial weight on the top of the container label using a felt tip pen or permanent marker as well as the time and date the test was started (T1).



## STEP 3

Remove the sealing tape from the plastic container. Make sure the tape does not get dirty or lost since it will be needed to reseal the container at the end of the test.

Note: For best results, stick the tape on the outer wall of the dome unit to keep it safe.



## STEP 4

Peel off the paper protective backing from the black sealant that is around the dome and discard. Make sure the sealant material does not contact objects or clothing as it is very sticky and intended to provide a secure, long-lasting seal to the concrete throughout the duration of the test.



## STEP 5 & 6

Carefully remove the lid from the container that holds the calcium chloride crystals. Do not spill the crystals.

Install the test kit on the concrete floor. First, place the open calcium chloride container on the concrete floor. Make sure the crystals are relatively level. If any crystals are spilled the test can be invalid.



## STEP 7

Next, immediately place the dome unit over the center of the dish. Press firmly along the edges of the sealant material to securely bond the unit to the floor. To test for an airtight seal, press firmly on the center of the cover. The cover should resist pressure, if properly sealed.

Allow the test kit to remain undisturbed for a period of 60 to 72 hours. Note the ambient temperature and humidity at the test area.



## STEP 8

After 60 to 72 hours, remove the dome with a razor. Retrieve the dish with the calcium chloride and immediately place the lid back on and reseal using saved vinyl tape. Re-weigh the container on the same gram scale used at the start of the test. Record weight, date and time (W2) (T2).

Note the weight as final weight (W2). Do not spill any of the calcium chloride crystals from the container. If any crystals are spilled, the test must be rerun with a new test kit.

