AMT CC Moisture Test Instructions

The AMT Calcium Chloride Moisture Test Kit is the simplest and most effective product to gauge the moisture level in both existing and future flooring locations. These test results will enable you to determine if remedial or preventative measures are required to avoid expensive repairs thereby insuring ultimate longevity of your flooring solutions.

Step One

Open the sealed bag containing the calcium chloride canister. Weigh the canister with the black tape seal using a gram scale with a gradation to 1/10th gram.

Note: Be sure the scale is set to grams. Ounce scales will not work for this test. Starting weights are around 30 to 31 grams, but may vary slightly. The scale we provide can be calibrated if desired. However, the main concern in weighing this test canister is using the same scale when you first weigh the canister as when you post-weight it. The overall gain in grams is the most important factor.

Step Two

Record the starting weight, date and time you start the test on the canister lid and on the back of the worksheet provided with the test kit. The most important factor is determining the gain in grams from the start to finish of the test and the hours it was exposed.

American Moisture Test provides a useful worksheet that can be easily photocopied for proper documentation.

Step Three

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

Step Four

CAREFULLY remove the lid. Do not spill the crystals. Place the lid under the dish as shown.

Step Five

Install the test kit on the concrete floor. Place the opened calcium chloride container on the concrete floor. Make sure the crystals inside are relatively level. If any of the crystals are spilled the test can be invalid. Spilled crystals must be vacuumed up quickly before leaving a damp residue.

Step Six

Immediately place the dome unit over the center of the dish unit. Always be prepared to place the dome over the dish as soon as possible after opening the dish. Press down firmly along all the edges of the sealant material to securely bond the unit to the floor. A properly sealed dome will have the outside flange touching the floor. Put a slight amount of hand pressure on the center of the dome to ensure it is not leaking air.

Step Seven

Allow the test to remain undisturbed for 60 to 72 hours. Once the test is placed into service it must not be disturbed by foot traffic or allowed to be exposed to direct sunlight. If accidental bumping occurs and the seal is not broken or the crystals inside spilled, the test may still be useable. If exposed to sunlight it will bias the test and produce inaccurate results. The use of protective cones is a good way to draw more attention to the test kit. It is a good idea to inform people that this test is sensitive and may have to be re-conducted if disturbed or destroyed.

Step Eight

Recover the dish after exposure and calculate the results. At the end of the 60 to 72 hours of exposure, carefully open the dome with a razor blade and reach inside to retrieve the dish without spilling the calcium chloride. The used dome and sealant can be safely removed from the concrete with a razor scraper later on.

Step Nine

Immediately replace the dish lid and re-weigh the dish on the same gram scale used at the start of the test, and once again record the weight and time on the dish lid and on the worksheet.