

## Calcium Chloride Moisture Testing Kits

part #625

**Bulk Pack of 50 without the individual packaging part #625B**

The calcium chloride vapor emission test, measures the volume of water vapor radiating from a concrete slab surface over time.

This test, ASTM F1869-98, is directly specified by the vast majority of the Floor Covering Industry as the primary measure of moisture acceptability for floor covering installation.

This test models the amount of moisture that emits from 1,000 square feet of slab surface in 24 hours.

The result is expressed as "pounds" which is the equivalent weight of water, emitted as vapor, over 1,000 square feet in 24 hours. Use this result to compare to Manufacturer's specifications for floor covering or coating tolerances.



## How to take a moisture reading from concrete

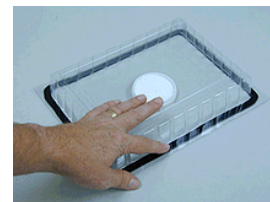
1. The test site should be at the same temperature and humidity expected during normal use. If this is not possible, then the test conditions should be  $75 \pm 10^{\circ}\text{F}$  ( $23.9 \pm 5.5^{\circ}\text{C}$ ) and  $50 \pm 10\%$  relative humidity. Maintain these conditions 48 hrs. prior to, and during testing.
2. Prior to placement of the tests, the actual test area should be clean and free of all foreign substances. All residual adhesives, curing compounds, sealers, paints, floor coverings, etc. should be removed



Notice the dry weight is listed  
On the Petri dish  
Write date & time  
the test is started



Open the dish  
and seal it under  
the clear dome



Protect the test  
with box



After 72 hours  
Seal the dish &  
mark the date  
and time

With a gram scale, weigh the dish and  
do the math. = the equation will give you  
the pounds of moisture vapor per 24 hrs

$$\frac{\text{Gain in weight (grams)} \times 2.057 \times 24 \times 1000}{\text{Hrs. exposed} \times 454} =$$