

Concrete moisture meter for determining suitability of accepting a covering to meet Australian Standard 1884: 2012

The Problem

You work for a company that installs floor coverings over concrete. You used to be able to just use a non-destructive moisture meter to determine whether the concrete is dry enough to accept a floor covering. However, since the Australian standards have changed you are unsure of what equipment you will need to meet the requirements of AS 1884-2012. So which moisture meter will meet your requirements?

The Solution

The only test result accepted under the newly adopted AS1884 standard is the Relative Humidity (RH) test method using either the in-situ probe invasive RH test method or the surface mounted insulated hood RH test method.

The [Tramex Concrete Hygro-I Inspection Kit](#) is a complete package for concrete moisture monitoring and it allows you to take measurements as per the in-situ probe test. It comes with the CMEXPERT moisture meter, 3 Hygro-i humidity probes along with hole liners and caps, 3 humidity calibration checkers and an infrared surface thermometer. To take measurements as per the standard, three holes need to be drilled in the first 100m² of concrete (1 hole per 100m² after this). In each of these holes a hole liner is placed, then a hygro-i probe, and then a cap is placed over the top. The sensors are then left for 72 hours after which the CMEXPERT with Hygro-i connection is used to connect to each sensor and take a relative humidity measurement. The concrete subfloor is considered "sufficiently dry" when the measurements taken do not exceed 75%. You can view a video of the process [here](#).

If you wish to perform the insulated hood method, you can add 3 of the Tramex insulated RH hoods to the above kit. They are compatible with the hygro-i probes and they can be attached to the concrete with double sided tape. The hygro-i probes can then be inserted into the top and left for at least 72 hours. Once the reading gets below 70% humidity the concrete is considered "sufficiently dry".

If you need any assistance with selecting a moisture meter to best suit your requirements or if you wish to know further details about how these meters would work in your conditions please feel free to contact one of our friendly Scientists via [email](#) or phone on 1300 737 871.

Recommended Products

CMEXHiI - Concrete Hygro-i Inspection Kit



The [Concrete Hygro I Kit](#) allows you to meet the new standards for in situ tests of concrete moisture. The kit comes with a CMEXPERT meter, Hygro I interface, 3 x Hygro I probes, 12 hole liners and caps, 3 x 75% RH calibration salts, and an infrared surface thermometer. This kit allows you to place humidity sensors in 3 holes at the same time, and then check them with the same meter.

RHIH – Insulated RH hood



The RHIH can be used in conjunction with the CMEXPERT and Hygro-i probes to measure concrete relative humidity as per Australian Standard 1884: 2012