



UPDATE

Date: October 14, 2008

From: ARDEX Technical Department

HENRY 430 GREENLINE – NEW MAXIMUM MOISTURE LIMITS

ARDEX Engineered Cements and The W.W. Henry Company are pleased to announce new recommendations for moisture limits when installing vinyl composition tile (VCT) on concrete using **HENRY 430 with GreenLine Environmental Technology**.

When used in accordance with our written installation recommendations, this will confirm that HENRY 430 can be installed over concrete with moisture levels up to and including:

- 90% relative humidity when measured in accordance with ASTM F2170 - *Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in-situ Probes*
- 8 lbs./1000 sq. ft./ 24 hours MVER when measured in accordance with ASTM F1869 - *Standard Test Method for Measuring Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride*.

In addition to the above, all slabs on or below grade must have an effective and intact vapor retarder in conformance with ASTM E1745 placed directly below the concrete. Further, the pH of the concrete must not exceed 11. Moreover, please be aware that these new limits apply only to the HENRY 430 adhesive. The installation conditions must also comply with any recommendations made by the VCT manufacturer for the tile itself.

Any concrete that does not meet the above conditions must be remediated or allowed to dry to an acceptable moisture level before the VCT is installed.

Precaution: This recommendation covers only the performance of the adhesive in service under the moisture conditions described. If an installation fails, and subsequent moisture testing shows higher levels than those noted above, the failure would not be covered under warranty.

We must state this precaution due to the fact that increasing evidence shows that Calcium Chloride tests alone are not effective in predicting the amount of moisture in the concrete more than 3/4" below the surface. Prior to installing flooring, this test can show initial emission levels within acceptable limits. However, this test cannot read potentially higher moisture levels deeper in the concrete. Once the flooring is installed and the moisture redistributes within the concrete, the emission levels can increase and cause a failure.

For this reason, Ardex and W.W. Henry recommend that contractors perform in-situ RH testing, since this test reliably predicts the amount of available moisture that the entire flooring system will see post-installation.

HENRY 430 continues to be benchmarked as the #1 adhesive in the flooring industry for installing VCT. In addition to outstanding moisture/alkali resistance, HENRY 430 is a "GreenLine" product, and meets or exceeds all applicable environmental requirements.

A handwritten signature in black ink, appearing to read 'Seth Pevarnik', with a stylized, cursive script.

Seth Pevarnik
Director of Technical Service