

KOSTER exceeds new Moisture Mitigation Systems Standard

ASTM F3010 - 13

A new, long-awaited standard for moisture mitigation systems has been published by ASTM International. *Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings*, designated ASTM F3010 - 13, was approved by ASTM Committee F06 on Resilient Floor Coverings on June 1, 2013. The standard is available from www.ASTM.org

KOSTER American Corporation Technical Director, Howard Kanare, made significant contributions to the standard, which was under development since 2007 and is the work product of members of ASTM F06.40.12 Task Group on Moisture Mitigation Systems.

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ASTM F3010

Significance and Use

4.1 Moisture permeating from concrete substrates can detrimentally affect the performance of resilient floor covering systems. All resilient flooring and adhesive manufacturers have a maximum acceptable level of moisture in which their products can perform satisfactorily. If pre-installation moisture tests indicate that the moisture level is unacceptable for the specified floor covering to be installed, one option is to apply a topical treatment to the concrete substrate surface to mitigate the moisture condition. Experience has shown that certain types of membrane-forming moisture mitigation systems have more desirable properties and successful performance than others. Requirements for membrane-forming moisture mitigation systems to be used, and other related details, are generally included as part of the project plans, or specification details, and may vary from the minimum recommendations set forth in this practice.

4.2 This practice is intended for use after it has been determined that a floor moisture condition exceeds the resilient floor covering or adhesive manufacturer's requirements, or both, as tested according to Test Methods **F1869**, **F2170**, and **F2420**.

4.3 Membrane-forming moisture mitigation systems are not intended for use over gypsum-based substrates or other moisture sensitive substrates.

1. Scope

1.1 This practice covers the properties, application, and performance of a two-component resin based membrane-forming moisture mitigation system to high moisture concrete substrates prior to the installation of resilient flooring.

1.2 This practice includes recommendations for the preparation of the concrete surface to receive a two-component resin based membrane-forming moisture mitigation system.

1.3 This practice does not supersede written instructions of the two-component resin based membrane-forming moisture mitigation system manufacturer, the resilient flooring manufacturer, underlayment manufacturer, the adhesive manufacturer, or other components of the finish flooring system, or combinations thereof. Users of this practice shall review manufacturer's technical data sheets and installation instructions for compatibility of system components.

1.4 The following membrane-forming or non membrane-forming moisture mitigation systems are not included in the scope of this practice:

1.4.1 Moisture mitigation systems that chemically react with any constituent of the concrete to form a gel or crystalline substance within the concrete.

1.4.2 Penetrating, water- or solvent-based compounds that do not form a continuous membrane on the concrete surface.

1.4.3 Water-based membrane-forming moisture mitigation systems are not included in the scope of this document.

1.5 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.6 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

KOSTER SYSTEMS EXCEED REQUIREMENT

KOSTER moisture control products VAP I[®] 2000, VAP I[®] 2000 Zero VOC, VAP I[®] 2000 FS, and VAP I[®] 2000 UFS all exceed the requirements of this standard for water vapor suppression and bond strength to concrete.

To view KOSTER's actual perm ratings click on each product link below:

[KOSTER VAP I[®] 2000](#)
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