



CONCURE SYSTEMS TOPICAL VAPOR BARRIER DATA SHEET

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PRODUCT DESCRIPTION:

Concure Systems Topical Vapor Barrier is a three-step topical system, designed to stop floor coverings from de-bonding due to moisture. Each step works independently of the other to waterproof a concrete slab. The system is water based and designed for fast track installations.

This system stops hydrostatic pressure, capillary action and moisture migration. It also creates a negative and positive side barrier. This product is compatible with all adhesives and floor coverings.

Step 1 is a silicate sealer that penetrates into the concrete slab. A reaction occurs between the lime and excess Portland cement, which is always present, and forms Calcium Silicate Hydrate (CSH). This process will encapsulate the moisture to create a permanent break in the capillaries of the concrete, stopping all moisture related problems.

Step 2 is an acrylic polymer that is designed to seal and prime the surface of the concrete.

Step 3 is a waterproof polymer enhanced cementitious coating that is applied to the concrete 7-12 mils thick. This membrane will enhance adhesion and stop vapor molecules from migrating through the slab.

This system is designed to stop moisture problems at all levels intolerant to the installation of flooring as recommended by flooring manufacturers as indicated by the results of a Calcium Chloride test.

TESTING:

Prior to shot blasting, a Calcium Chloride test is required. The results of this test must be registered with Concure Systems.

USES:

Concure Systems Vapor Barrier is a topically applied system designed to prevent floor coverings from de-bonding due to excessive moisture.

Vapor Barrier is a topical system that is especially useful in new construction when excessive moisture is detected before the original flooring is installed

**** Note**** Vapor Barrier is not a patch or leveling product. A skim coat or a leveling product may be needed to make the concrete slab suitable for floor coverings

TEST - RESULTS:

Adhesion ASTM C952	155psi
Tensile	280psi
Flexural Strength ASTM C580	472psi
Permeability CRD-48-73	2.63x10 ⁻¹⁰ cm ³ /sec

COMPOSITION:

Step 1 is a formulated blend of silicates and reactive ingredients.

Step 2 is an acrylic polymer designed to act as a surface sealer and primer.

Step 3: Is a polymer enhanced cementitious coating that provides excellent waterproofing and bonding characteristics.

Surface Preparation:

A brush blast to an ICRI (International Concrete Repair Institute) profile 4, using 330 shot, is required. The surface, after shot blasting is completed, should be white in color with no signs of curing agents or other types of concrete finished surface. After brush blasting, make sure the surface is clean, with no signs of dirt, oil, curing agents, sealers or adhesive residues. All loose material and dirt must be removed from cracks in order to allow proper bonding.

APPLICATION:

Step 1: Using a low-pressure sprayer, apply one generous coat. Step 1 covers 200-300 square feet per gallon. Do not let the material pond on the surface. Broom material evenly to cover all areas. Dry time is usually about one hour, depending upon the temperature and jobsite conditions. When Step 1 is dry to the touch, Step 2 can be applied.

Step 3: Using a broom or brush apply a thin coat. Step 3 will yield 175 square feet per unit and must be applied to the entire surface being treated including all cracks, saw-cuts and control joints.

INSTALLATION OF FLOOR COVERING:

Adhesives and floor coverings may be installed when Step 3 (cementitious coating) has hardened and is dry. Dry time may vary depending on air temperature, but treated areas should dry by the next day. A Calcium Chloride test must be performed when step 3 is dry and before flooring is installed.

Mixing:

Step 1: Stir before application.

Step 2: Apply product as supplied per manufacturer's instructions.

Step 3: Mix powder water and polymer as required by instructions.

FIELD SERVICE:

Installation by a floor-covering contractor can be done under the supervision of a Concure Systems representative or by a corporate installation team.

WARRANTY:

This vapor barrier is formulated for the flooring industry and meets or exceeds all guidelines pertaining to moisture emission as established by the flooring industry. This vapor barrier carries a TEN (10) year warranty against moisture related failure, including all finish floor materials and labor. Contact manufacturer for more information on warranty condition, duration and remedies.

TECHNICAL SERVICES:

Trained service personnel offer design assistance and technical support. For technical assistance call (480) 820-7171. For local representative please visit our website.

www.concuresystems.com