



Concure 401 Epoxy Vapor Barrier

Product Name:

Concure 401 Epoxy Vapor Barrier
Product ID: 200

Manufacturer:

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Description:

Concure 401 Epoxy Vapor Barrier is a 3-component, water based, epoxy moisture remediation system applied topically to concrete to stop moisture and reduce vapor emissions. Concure 401 Epoxy Vapor Barrier is designed to stop floor covering failure due to concrete slab moisture and effective for cure and seal applications. Concure 401 Epoxy Vapor Barrier reduces a moisture vapor emission rate of 25 pounds to less than 3 pounds as per the ASTM F1869 Calcium Chloride Test.

Advantages:

- Low Odor/Solvent Free/VOC Compliant
- Fast drying
- Deep penetration
- Moisture and alkali resistant
- Fast installation of floor covering
- Water clean up
- Can be used as a primer for coating
- Can be rolled or spray applied
- Superior cross-linking chemistry for excellent bonding
- Will fill and bridge hairline cracks
- MVER Reduction: 25 lbs. to less than 3 lbs. in 3 days (1 application)
- Solvent Based Coating in 48 hours
- Water Based Coating in 24 to 36 hours

Applications:

Concure 401 Epoxy Vapor Barrier is a topical moisture and vapor remediation coating over any concrete substrate. Concure 401 Epoxy Vapor Barrier can be used to cure and seal new concrete and act as a primer for reducing surface pH.

Technical:

Component A: Color clear
Component B: Color amber
Component C: Color Clear
Mixed Color: Milky Lime
Mixed Solids: 60%

Technical:

Mixed Viscosity: 400 cps
Bond Strength: 490 psi – (failure in concrete)
(ASTM D4541)
Pot Life 77 °F (25°C): 45 Minutes
Cure Time: 3 Hours dry to touch
5 Hours dry hard
Minimum Thickness: 11 mils Dry Film
Re-Coat Time: 3 Hours
Foot Traffic: Approximately 6 hours
Shelf Life: 1 Year

| Water Vapor Transmission Reduction ASTM E96 (Wet Method) | | | |
|---|--------------------------|---|-------------------|
| | Untreated Control | Concure 401 Epoxy Vapor Barrier @ 14 Days | Percent Reduction |
| Water Vapor Transmission: | | | |
| ▪ Lbs / 24 hours* 1000 Sq.Ft. | 25.74 | 0.31 | 98% |
| ▪ Grams / hour * Sq.M. | 5.24 | 0.06 | |
| ▪ Grains / hour * Sq.Ft. | 7.54 | 0.09 | |
| Permeance: | | | |
| ▪ Perms | 17.39 | 0.21 | |
| ▪ Grams / Pa*s*Sq.M. | 9.87 X 10 ⁻⁰⁷ | 1.10 X 10 ⁻⁰⁸ | |

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Limitations:

Do not install if air or substrate temperature is below 50°F (10°C) or above 95°F (35°C). Concrete substrate must be clean, sound and free of all foreign matter. Concrete must be properly prepared. Concrete should be at least 5 days old for installation. If concrete is less than 5 days old, call for technical installation instructions. Please call for moisture vapor emissions greater than 25 pounds.

Store between 40°F and 80°F (5°C and 25°C) to prevent clouding and crystallization. Do not allow to freeze.

Packaging:

2-1/2 Gallon Kits
5 Gallon Kits

Preparation:

Concrete must be shot blasted using a 330 shot. Curing agents or any other foreign matter must be removed. Sand or small aggregates must be visible (RE: Surface profile ICRI CSP 3 – 5). Grinding with a diamond grinder can be used. Diamond blades should be #20 diamond. Thoroughly vacuum surface after preparation.

Cracks and Joints:

All cracks, joints and saw cuts should be opened with a crack chaser and vacuum cleaned. Then patch with Concure 401 Crack Fill Cement System.

Expansion Joints:

See architect or general contractor for design and instruction.

Mixing & Application:

Concure 401 Epoxy Vapor Barrier is a 2-Step system. First is the prime coat and second is the base coat. Once these steps are completed,

patch all cracks with Concure 401 Crack Fill Cement System.

STEP 1:

Mix Concure 401 Epoxy Vapor Barrier for priming. Pour **Part A** into **Part B** and mix for 3 minutes at 400 rpm. Slowly add **Part C** with continued mixing for 3 minutes. Epoxy materials should be between 60°F and 80°F (15°C and 25°C) at time of mixing. Prevent any action that entraps air during mixing. Ensure materials at the bottom and sides of the mixing container are agitated. Pour Concure 401 Epoxy Vapor Barrier primer mix onto the concrete floor. Use a squeegee to slowly spread epoxy at a rate of 150 sq. ft. per gallon. Back roll with a 3/8" nap roller cover and evenly distribute the material to release air. At the same time, use a brush to prime all cracks and joints. Let dry to touch. Material should be clear when dry. **Do not exceed 3 hours cure time before step 2.**

STEP 2:

Mix Concure 401 Epoxy Vapor Barrier for top coating. Pour **Part A** into **Part B**, mix for 3 minutes at 400 rpm. Add **Part C** while mixing thoroughly mix for an additional 3 minutes. Prevent any action that entraps air during mixing. Ensure materials at the bottom and sides of the mixing container are agitated. Pour mixed Concure 401 Vapor Barrier on floor and spread at a rate of 150 sq. ft. per gallon. Back roll with a 3/8" nap roller cover and evenly distribute the material to release air. Use a brush to fill small cracks and prime larger cracks.

PATCHING OF CRACKS AND JOINTS:

(Concure 401 Crack Fill Cement System)

Take 12-1/2 pounds of Concure Vapor Barrier crack fill cement and mix with premeasured Concure 401 Crack Fill Cement System. Mix for 3 minutes and fill cracks.

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PATCHING FOR FLOOR COVERING:

(A test area is always recommended.)

If patching or leveling is required prior to flooring covering installation, a Styrene Acrylic Primer should be used prior to applying a self leveling compound or feather type patch. Patching and leveling can begin when Concure 401 Epoxy Vapor Barrier turns clear at approximately 6 hours.

401 BEING USED AS A PRIMER:

If finished floor is a resinous coating follow the following:

Water Based Systems: Wait 24 to 36 hours

Solvent Systems: Wait 48 hours

Cement systems: Wait 6 hours

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