



TECHNICAL DATA SHEET

MVE² - Water Based Epoxy

Product Name:

MVE² - Water Based Epoxy

Manufacturer:

The Concure Group
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Newtown Square, PA 19073
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Description:

MVE² - Water Based Epoxy is a 3-component, water based, epoxy moisture remediation system applied topically to concrete to stop moisture and reduce vapor emissions. MVE² - Water Based Epoxy is designed to stop floor covering failure due to concrete slab moisture and effective for cure and seal applications. MVE² - Water Based Epoxy 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
- Superior bonding
- Fast installation of floor covering
- Water clean up

Applications:

MVE² - Water Based Epoxy is a topical moisture and vapor remediation coating over any concrete substrate. MVE² - Water Based Epoxy can be used to cure and seal new concrete and act 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: 15 mils Dry Film
Re-Coat Time: 3 Hours
Foot Traffic: Approximately 6 hours
Shelf Life: 1 Year
MVER Testing 25# to less than 3# in 3 days

Limitations:

Do not install if air or substrate temperature is below 50°F (10°C) or above 95°F (35°C). Concrete should be at least 5 days old for installation. If concrete is less than 5 days old, call for technical installation instructions. MVE² - Water Based Epoxy requires good air circulation for the product to dry properly.

Storage:

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

Packaging:

All units are pre-measured
2-1/2 Gallon Kits
Larger size units are available on request.

Preparation:

Concrete must be shot blasted or grinded to remove curing agents or any other foreign matter. Surface profile should be ICRI CSP 3 – 5. Thoroughly vacuum surface after preparation.

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Cracks and Joints:

All cracks, joints and saw cuts should be opened with a crack chaser and vacuum cleaned. Then patch with MVE² - Water Based Epoxy System.

Expansion Joints:

See architect or general contractor for design and instruction.

Application:

Good air circulation is required for the MVE² - Water Based Epoxy to dry properly.

Patching of cracks and joints:

Use MVE² - Water Based Epoxy

MVE² - Water Based Epoxy is a 2-coat system.

Mix MVE² - Water Based Epoxy **Part A** into **Part B** and mix for 3 minutes at 400 rpm. Slowly add **Part C**. Ensure materials at the bottom and sides of the mixing container are agitated. Pour MVE² - Water Based Epoxy on to floor using a

squeegee. Slowly spread epoxy at a rate of 150 sq. ft. per gallon. Back roll with a 3/8" nap roller and evenly distribute the material to release air. Allow it to dry to touch. Material should be clear when dry. Repeat process.

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 apply a self-leveling compound or feather type patch. Patching and leveling can begin when MVE² - Water Based Epoxy turns clear at approximately 6 hours.

Primer for coatings:

The MVE² - Water Based Epoxy will act as a primer for all coatings. If coatings contain a solvent wait 48 hours for installation.

| Water Vapor Transmission Reduction ASTM E96 (Wet Method) | | | |
|---|--------------------------|--|-------------------|
| | Untreated Control | MVE ² - Water Based Epoxy @ 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 X10 ⁻⁰⁸ | |

Warranty & Disclaimer:

Extended Warranties are available. Written extended warranties are available on a per job basis. Please call for information.

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