MVE² 100% SOLIDS EPOXY

EPOXY MOISTURE MITIGATION COATING

Technical Data Sheet

DESCRIPTION

MVE² 100% Solids Epoxy is a reactive, two-component, moisture mitigation coating to stop moisture and vapor emissions on existing concrete. MVE² 100% Solids Epoxy has minimal odor and does not contain solvents. MVE² 100% Solids Epoxy reduces moisture vapor emission rate of 25 pounds to less than 3 pounds per the ASTM F1869 Calcium Chloride Test. MVE² 100% Solids Epoxy reduces moisture vapor permeability from 8.6 Perms to less than 0.1 Perms per ASTM E96 Wet Method Test and meets the ASTM F3010 test requirements.
MVE² 100% Solids Epoxy is formulated in the following versions:

#1. **Rapid Cure** curing in less than one hour
#2. **Fast Cure** curing in four hours
#3. **Standard Cure** curing in 16 hours

ADVANTAGES

- Zero VOC
- Adjustable curing times
- Superior bonding
- Fast installation of floor covering
- Can be used in adverse weather conditions
- Can cure as low as 40OF (4.4OC)
- Reduces MVER from 25 lbs. to below 3 lbs.
- Solvent free
- Can be used as primer for coatings
- Non-blushing
- Does not contain Silicone
- Low Viscosity
- Install flooring in 6 to 26 hours
- CaC12 less than 1 lb.

APPLICATIONS

MVE² 100% Solids Epoxy is a topical moisture and vapor remediation coating over any concrete substrate. MVE² 100% Solids Epoxy can be used over new concrete as a primer for reducing surface pH.

TECHNICAL

Component A: Color: Colorless
Component B: Color: Yellow to Amber
Mixed Color: Straw to Pale Yellow
Mixed Viscosity: 800 to 1300 + or - cps
MVER Calcium Chloride: 24.6# to 2.2# in 1 day
(ASTM F1869)* 24.6# to 1.1# in 3 days
*Standard Cure Version
WVT Perm Testing: 0.06 Perms
(ASTM E96)

ASTM	METHOD	RESULTS
F1869	Calcium Chloride @ 100 sq.ft./gal	0.11 pounds/1000 ft2/24 hrs.
D4541	Tensile Adhesion to Concrete	390 psi @100 sq.ft./gal
E96	Vapor Permeability	0.06 Perms

LIMITATIONS

Do not install if air or substrate temperature is below 40OF (4.4OC) or above 95OF (35OC). Concrete should be at least 5 days old for installation. If concrete is less than 5 days old, call for technical installation instructions. Do not install if concrete slab has excessive wetness or ponding water.

Shelf Life: 6 Months

Storage: Store between 40OF and 80OF (5OC and 25OC) to prevent clouding and crystallization. Do not allow to freeze.

PACKAGING

Rapid cure: 1-gallon unit
Fast cure: 1 and 2.5-gallon units
Standard: 2-1/2 gallon and 5-gallon units
All units are prepackaged for convenient installation.

PREPERATION

Concrete must be shot blasted or grinded to eliminate any curing agents, coatings, adhesives or surface contamination. Concrete surface must be prepared to reflect a profile of ICRI CSP 3 - 5. Once surface prep is completed, surface must be vacuum cleaned to remove all dust.

CRACKS AND JOINTS

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

EXPANSION JOINTS

See architect or general contractor for design and instruction.

INSTALATION THICKNESS

MVE² 100% Solids Epoxy System is a coating that should be installed at 14 mils minimum thickness, approximately 110 square feet per gallon. This can be accomplished in one 14 mil application or two applications of 7 mils each. If you need more than 48 hours to apply a cementitious topping, use the 2 - application method and apply sand to the second application.

MIXING AND APPLICATION

NOTE: For best application properties, units should be acclimated between 60OF and 70OF (15OC and 20OC) if possible. Mix Part A to Part B together for 3 minutes at 400 rpm. Prevent any action that entraps air while mixing. Ensure materials at the bottom and sides of the mixing container are agitated. Pour MVE² 100% Solids Epoxy System mix onto the concrete floor. Use a squeegee to slowly spread epoxy at a rate of 110 sq. ft. per gallon. Back roll with a 3/8” nap roller and evenly distribute the material to release air. Let cure to touch. Material should be clear when dry.

If floor covering is your final finish:
If patching or leveling is required prior to flooring covering installation, a Styrene Acrylic Primer should be used within the specified installation window prior to applying a self-leveling, skim coat or feather-type compound. Patching and leveling can begin when MVE² 100% Solids Epoxy System turns clear and slightly tacky without transfer. Cure times vary. A test area is always recommended with the primer and underlayment prior to installation. Observe Dew Point when installing coatings or floor covering. Do not install flooring or coatings if the surface of MVE² 100% Solids Epoxy System is wet.

You must be within the window for application of cement based patching and leveling materials.

For Rapid cure system:
Window for installation of patching compounds is 10 minutes after epoxy cures.

For Fast cure system:
Window for installation of patching compound is 60 minutes (TABLE STATES 4 HOURS) after epoxy cures.

For Standard system:
Window for installation of patching compound is 24 hours after epoxy cures.

If epoxy coating is your final finish:

You can use the MVE² 100% Solids Epoxy System as a primer for your coating systems. MVE² 100% Solids Epoxy System is compatible with 100 percent solid and solvent based systems.

LIMITED WARRANTIES

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

DISCLAIMER:

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to substitution due to supply change shortages without prior notice. Please contact The Concure Group to confirm most up to date product information.