



SUPERIOR QUALITY

COMPETITIVE PRICING

EXCELLENT CUSTOMER SERVICE

Technical Data Sheet

Moisture Vapor Transmission Epoxy (MVT)

Highlights

- Moisture Vapor Control system
- 24 lbs per 1000 sqft. Upper limit ASTM 1869
- 100 % RH control ASTM F2170
- Fast cure 4 hours
- Bonds to damp concrete
- Green concrete after 7 days
- 100% solids l
- Low Odor
- Bonds old concrete to polymerized overlays
- Protects on permeable flooring from MVT
- Easy to use
- Can be pigmented w CSI pigment packs for base colors under metallic coatings
- High PH resistance 13

Uses

- Ideal as a primer under all resin-based coatings.

Limitations

- Minimum surface profile CSP 3
- Dynamic cracks must be honored.
- Nonmoving cracks 10 mil and under need 20 mils of MVT Epoxy
- Minimum thickness 16 mis. Substrates with a profile greater than CSP 3 will use more material.

Packaging

- 1.5 Gallon kit
- 3 Gallon kit
- 15 Gallon

Material Properties

Mixed VOC Content:	0g/L	ASTM D-638 Tensile Strength psi	4,500–5,200psi
Mix Ratio (by volume):	2:1	ASTM D-638 Tensile Elongation %:	4%-6%
Tack Free Time:	4 hours	ASTM D-695 Compressive Strength	
Recoat Time (min/max):	4hrs./12hrs	@ 24Hrs:	7.500
Light Foot Traffic:	4 hours	@ 7 Days:	9,800
Vehicular Traffic:	12 hours	ASTM C-722 Monolithic Surfacing:	Pass
ASTM D-570 Water Absorption (24 hrs.):	<0.5%	ASTM D-2794 Impact Resistance:	Pass
ASTM D-635 Flammibility:	Self-Extinguishing	ASTM D 4060 Abrasion Resistance (CS-17):	36mg
		ASTM Shore D, D-2240	80

Description

CSI MVT Epoxy is a one coat film forming membrane and moisture vapor transmission control system. This uniquely formulated two component 100% solids system is designed to prevent moisture related floor failures in non-breathable floor systems. This includes resin floor coatings, wood, tile, carpet, rubber, vinyl sheet goods and other non-permeable flooring. It is ideal bonding agent to apply cementitious polymer overlays to existing concrete. It can be broadcast with 20-40 mesh clean dry silica sand to excess, swept clean after 4 hours and then apply polymerized overlays. Its unique blend of epoxy resins and specially formulated fast cure hardeners make it ideal for rapid return to service projects. CSI MVT Epoxy has an upper limit of 24 lbs. vapor emission level (ASTM 1869) and can be applied to concrete with relative humidity of up to 100% (ASTM F 2170). CSI MVT Epoxy is an ideal as a primer for green or newly placed concrete as soon as 7 days after placement. It can be applied to damp or wet environments with tenacious bond. CSI MVT Epoxy meets all state and federal VOC regulations having 0 VOC content. This makes it ideal for use on installations in sensitive area like hospitals, food and beverage manufacturing and service areas, industrial manufacturing, pharmaceutical plants, automotive industry, schools, animal hospitals, zoo,s retail, and commercial areas to name a few.

Surface Preparation

Surface preparation is critical for proper adhesion and performance. The surface must be dry, porous, clean, sound and free of grease, oil, curing compounds, dust, mastic and other contaminants or bond breakers.

Determine the substrate Moisture Vapor Emission Rate (MVER) per ASTM F1869 prior to placing CSI MVC. Acceptable substrates have an MVER less than or equal to 24 lbs/1000 sq ft per 24 hours. For readings in excess of 24lbs. For readings in excess of 24lbs MVER contact CSI technical support technician for recommendations.

CSI utilizes the International Concrete Repair Institute's (ICRI) Concrete Surface Profile (CSP) standards for specifying finished surface roughness prior to applying CSI MVC. It is highly recommended to mechanically profile the surface to achieve ICRI Concrete Surface Profile (CSP) 3-4. Upon completion of mechanical preparation, remove all shot, dust, dirt and debris. If acid is used to obtain the surface profile, in lieu of mechanical profiling, the surface must be washed, neutralized and allowed to dry completely for at least 24 hours.

Mixing

Mix Part A for 2 minutes with a drill and Jiffy Mixer. Add the entire contents of part B into part and mix for 2 more minutes. It is critical the full contents of part A and part b are mixed. Do not attempt to split the kits. Mix at a slow speed (400 rpm) to avoid air entrainment. Do NOT hand mix. Dump the entire contents of the mixed material onto the floor immediately after mixing and squeegee and back roll. This will ensure sufficient working time 20-30 minutes and 15-20 minutes if broadcasting sand.

Application and Clean Up

CSI MVT Epoxy may be applied by trowel or squeegee. Tools may be cleaned with Xylene, or other solvents prior to material hardening.

Handling Precautions

For complete instructions on handling and use, consult the corresponding Material Safety Data Sheet before using product. It is the user's responsibility to review instructions and warnings for any CSI products.

Avoid contact with the skin and use protective equipment as required. Wear protective gloves, protective clothing, eye protection, face protection and appropriate respirator equipment. Use in well ventilated areas. Dispose of contents and containers in accordance with local, state and federal regulations.

Warranty

CSI MVT Epoxy is a proprietary product that is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Seller and manufacturer's obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. The user assumes all other risks and liabilities resulting from use of this product. If you have any questions, please contact CSI.

Shelf Life

CSI MVT Epoxy has a 1year shelf life from date of manufacturing when properly stored in a dry, temperature-controlled environment.

First Aid

EYES: Flush thoroughly with water, lifting both eyelids. Get immediate medical attention.

SKIN: Wash with soap and water. If irritation develops seek medical attention.

INGESTION: Do not induce vomiting. Get immediate medical attention.

INHALATION: Remove to fresh air immediately. If breathing difficulty continues, administer oxygen. Get immediate medical attention.

Slip and Fall Precautions

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. CSI recommends the use of angular slip resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. CSI or its sales agents will not be responsible for injury incurred in a slip and fall accident.