

### DESCRIPTION

Perdure MVT is a two component modified epoxy system designed to seal concrete and reduce moisture vapor transmission prior to applying finished flooring. *Perdure MVT* has proven to reduce moisture vapor emissions and be resistant to damage from high alkalinity. It is an environmentally friendly material containing no hydrocarbons or other solvents making it zero VOC.

*Perdure MVT* is designed as a negative side moisture vapor retarder to reduce moisture vapor transmission through concrete.

### ADVANTAGES

- Reduce moisture vapor transmission rate through concrete.
- Provides excellent resistance to highly alkaline conditions.
- Gives excellent bond to properly prepared concrete.
- Can be rapidly resurfaced with a variety of finished flooring covering materials

### SUBSTRATE REQUIREMENTS

- Substrate temperature must be a minimum of 55°F before, during and 72 hours after installation
- It must have effective vapor barrier directly under substrate
- It must be used only on properly prepared surfaces
- Surface must be free of dirt, waxes, curing agents and other foreign materials
- It does not function as a crack reflective membrane

### COMPOSITION

- *Perdure MVT* is a highly cross-linked, alkaline resistant epoxy composition

### COLOR SELECTION

- The color of *Perdure MVT* is translucent red.

### APPLICATION

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared as outlined in *Duraamen's* Technical Bulletin # 1. Work must be performed by trained or experienced contractors or maintenance personnel. The Duraamen Company's service department is pleased to answer any technical questions.

*Perdure MVT* is a moisture vapor suppressant for concrete substrates. Surface and air temperature must be a minimum of 55°F during installation and cure. Concrete surface must be free of dirt, waxes, curing agents, any foreign materials and must be structurally sound. The surface must be shot blasted or diamond grinded to open surface porosity to achieve a surface profile of CSP 4 or CSP5 as defined in ICRS guideline #03732.

The concrete surfaces should be tested for moisture transmission according to ASTM F-2170 (Relative Humidity in Concrete Floor Slabs using in-situ probes) and ASTM F-1869 (Measuring moisture vapor emission rate of concrete subfloor using Anhydrous Calcium Chloride).

### INSTALLATION

Stir the resin and hardener separately prior to mixing. Mix ratio is 2 parts resin Part A to one part hardener Part B. Pour together and mix thoroughly for 60-90 seconds. Apply at the rate of 120ft<sup>2</sup>/ga. Apply extra material to areas showing penetration and soaking into the concrete. All areas should show a uniform gloss and a uniform 12mil minimum thickness.

Maximum recoat time for *Perdure MVT* is 72 hours. It may be advantageous to prime with *Perdure E32* or a second coat of *Perdure MVT* at 250ft<sup>2</sup>/ga and broadcast lightly with 30mesh silica to help achieve a good mechanical bond.

For areas showing moisture vapor greater than 12lb/1000ft<sup>2</sup>/24hours or humidity readings greater than 95% consult with Duraamen's Technical Department.

## CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with Xylene or Lacquer thinner. Consult MSDS for safety and health precautions.

## COVERAGE

Perdure MVT yields 120ft<sup>2</sup> per gallon at 1/2 mil thickness.

## AVAILABILITY

Perdure MVT is available throughout the United States and Canada. Contact Duraamen representative in your area for details.

## TECHNICAL SERVICE

Duraamen Building & Allied Products, Inc. provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces.

## TECHNICAL DATA

Tensile Strength ASTM D-638	10,400psi
Tensile Elongation ASTM D-638	2-4%
Modulus of Elasticity ASTM D-638	2500psi
Bond strength to concrete, ASTM D-4541	400-500psi 100% concrete failure
Permeability ASTM E-96	1 coat (10-12mil) - 0.09 Perms 2 coats (20mil) - 0.04 Perms
Water vapor transmission grams/hr/m <sup>2</sup> ASTM F-96	1 coat - 0.023 2 coats - 0.012
Alkali Resistance 7 day immersion 14 day immersion ASTM D-1308	10% NaOH- unaffected 50% NaOH- unaffected 10% NaOH- unaffected 50% NAOH- unaffected
Hardness Shore D ASTM D-2240	85
VOC Zero	Zero
Water absorption ASTM D-570	Zero
Mix ratio	2A : 1B
Pot life	30 minutes
Recoat time Minimum Maximum	4-6hr 72 hr

## WARRANTY

Duraamen Building & Allied products, Inc. warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed and applied in accordance with recommendations of Duraamen. If any product fails to meet this warranty, the liability of Duraamen will be limited to replacement of any non-conforming material if notice of such non-conformity is given to Duraamen within (1) one year of delivery of materials. Duraamen may in its discretion refund the price received by Duraamen in lieu of replacing the material. No customer, distributor or representative is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of Duraamen. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. Duraamen reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. DURAAMEN'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND DURAAMEN SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY OTHER THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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