

Perdüre MVT-W

water borne moisture vapor treatment



DESCRIPTION

Perdüre MVT-W is a low viscosity, water borne emulsion, penetrating epoxy primer formulated to be used as a moisture mitigation treatment on concrete with excessive moisture vapor transmission. Perdüre MVT-W will endure moisture vapor emission rates up to 10lb/1000ft²/24hr as tested according to ASTM F1869-11 and relative humidity of 90% in the concrete slabs tested according to ASTM F2170-11.

ADVANTAGES

- Excellent adhesion to concrete substrates that are prepared as per the prevalent standards and have cured for at least 28 days.
- Low odor during application and cure
- Short recoat time as compared to other similar systems
- ZERO VOC, contributes towards LEED Credits, Environmentally friendly
- Greatly reduces concrete outgassing
- Moisture vapor tolerant up to 10lb/1000ft²/24hr and 90% RH

SUBSTRATE REQUIREMENTS

- Substrate temperature must be a minimum of 55°F and ambient relative humidity below 85% for proper curing
- Substrate must be free from dirt, waxes, curing agents, densifiers, hardeners, fiber reinforcement, ASR byproducts and other foreign materials
- Slab on grade must have an efficient puncture resistant vapor barrier of minimum 10mil thickness
- Substrate temperature must be 5°F above measured dew point
- To be used only on standard mix design concrete. A certain degree of porosity of the slab is necessary for proper penetration of the resin. Any special mix design or high density concrete must be review by Duraamen technical service personnel prior to use in the project
- Do not use lightweight concrete slabs unless approved by Duraamen technical service personnel
- Perdüre MVT-W must be absorbed **completely** into the concrete pores. Do not puddle or apply a thick resin-rich surface layer. Apply Perdüre E02, 100% solids epoxy primer over Perdüre MVT-W unless approved by Duraamen technical service personnel

COMPOSITION

Perdüre MVT-W is water borne epoxy resin and hardener.

COLOR SELECTION

Perdüre MVT-W is available in clear form only. It is a white milky emulsion when mixed, and it dries clear after dries and cures.

APPLICATION

Surface preparation is the most critical portion of any successful high performance flooring system. All substrates must be properly prepared as outlines in Duraamen **Technical Bulletin # 1**. For use as a moisture vapor treatment primer over concrete substrates that are at least 28 days old, the surface must be either shot-blasted or profiled with a grinder to a minimum CSP 3 profile and tested for moisture content to confirm the limit of Perdüre MVT-W is not exceeded. The prepared surface must be able to pass a water absorption test to confirm adequate porosity: Apply dime size water droplets randomly across floor surface using eyedropper. Water must completely absorb into concrete within 60 seconds. Areas that fail this test must be further prepared until passing the test. The installation must be performed by trained or experienced contractors or maintenance personnel.

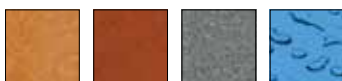
Mixing – Perdüre MVT-W comes in a premeasured kit. Mix each component of Perdüre MVT-W prior to mixing Part A and Part B together. Perdüre MVT-W is diluted with equal amount of water to reduce the solids content.

The substrate must be maintained at between 55°-85°F for 24 hours before, during and after installation. Thoroughly mix Part A and Part B with a slow speed mixer for a minimum of 2-3 minutes. This will result in a creamy emulsion. Add equal amount of water slowly while continuously mixing. Mix for another 3 minutes to ensure homogenous consistency. Be sure to use a suitable size mixing container since the mixed volume of material will double after adding the water.

Important: Avoid leaving puddles or a resin rich surface film, immediately brush or roll out excess material. Resin-rich surface material may not cure properly. **Final appearance when cured should NOT be a glossy film.**

BATCHING & INSTALLATION

Perdüre MVT-W – Part A	0.8 gallon (3.2 quarts)
Perdüre MVT-W – Part B	1.0 gallon
Clean Water	1.8 gallon
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TOTAL	3.6 gallon
Coverage from 1 kit	700–1250ft ²



düraamen engineered products, inc.

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Apply Perdure MVT-W at approximate rate of 200-350ft² per mixed gallon. Using a flat squeegee, spread material at the recommended rate. Pull the squeegee slowly with a puddle in front of the squeegee. Allow for sufficient wetting of the slab and back roll with a ¼" nap roller. Very porous concrete may require additional material.

Perdure MVT-W can be top coated with Perdure E02 very rapidly. Cure time for light foot traffic is 5 hours. Recoat time is 3-48 hours at 75°F and 50% RH. Allow for additional cure time in cooler temperatures and higher humidity.

CLEAN UP

Clean your skin with soap and water. Tools and equipment should be cleaned with Xylene or Lacquer Thinner. Consult Material Safety Data for safety and health precautions.

COVERAGE

Perdure MVT-W must be applied at approximately 250-350ft²/gallon depending on the porosity. Highly porous concrete may reduce the coverage.

TECHNICAL DATA

Viscosity @ 75°F	200-300cps
Solids Content	38% after mixed with water
VOC	Zero
Bond strength to concrete	350 psi (100% concrete failure)
Weight per gallon	8.75lb/ga (after mixed)

CURE / DRY TIME

Pot Life	1 hour
Dry to Touch	1.5-2.0 hours @ 75°F
Dry Hard, light foot traffic	5 hours @ 75°F
Recoat, minimum	3-5 hours @ 75°F
Recoat, maximum	48 hours @ 75°F

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AVAILABILITY

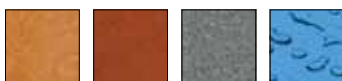
Perdure MVT-W is available throughout the United States and Canada. Contact Duraamen representative in your area for details.

MAINTENANCE

Perdure MVT-W is designed for use as a penetrating concrete primer and not a top coat requiring maintenance information. Finished flooring systems used in conjunction with Perdure MVT-W should be accompanied with proper maintenance guidelines.

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.



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