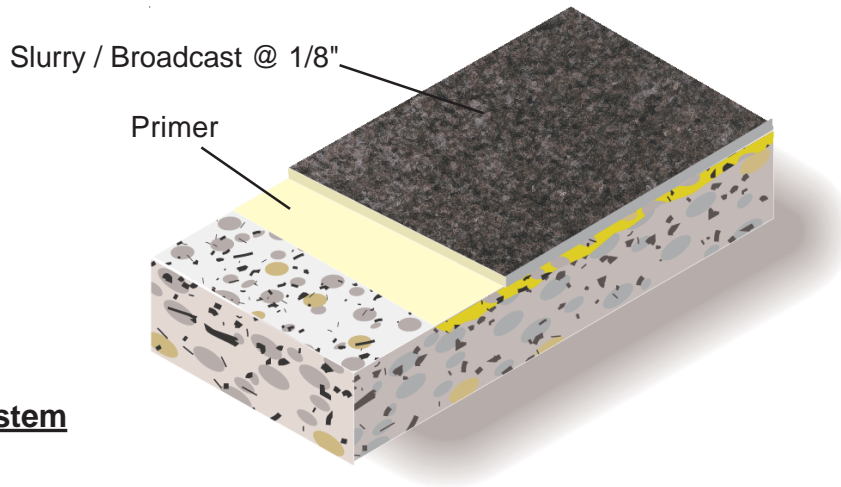




FasTop™ MVT Moisture Control System

General Polymers **FasTop MVT MOISTURE CONTROL SYSTEM** is a low odor, self-leveling system to be applied to concrete to control moisture vapor emissions. **FasTop MVT** can be applied with a pin rake, screed rake or notched trowel/squeegee. It is designed to provide a refinished surface on concrete prior to the application of a non-permeable flooring finish.



1/8" System

Advantages

- No testing for moisture necessary
- Can be applied to "green" concrete
- Rapid cure and hardness development
- Low odor, water-based
- Low temperature cure
- Excellent compressive strength
- Moisture insensitive
- Withstands vapor emissions

Uses

- Moisture vapor remediation
- Underlayment for impermeable flooring systems
- Repairs and levels deteriorated concrete

Limitations

- Do NOT apply to wet surfaces (no visible water)
- Must apply primer to concrete when installing a thin mil coating or slurry systems over **FasTop MVT**
- Surface must be properly cleaned and prepared prior to application
- Freezable liquid, maintain at room temperature
- **Do not install outside, call Technical Service Department.**

Typical Physical Properties

Color	Gray	
Cure Time	Recoat	2~ hours
	Foot Traffic	2-4 hours
Hardness, Shore D ASTM D 2240	75	
Tensile Strength ASTM C 307	550-600 psi	
Compressive Strength ASTM C 579	6,000 psi	
Flexural Strength ASTM C 580	3,700 psi	
Impact Resistance MIL-D-3134, Sec.4.7.3	Withstands 16 ft lbs without cracking, delamination or chipping	

ASTM C = Mortar System
ASTM D = Resin only

Installation

The following information is to be used as a guideline for the installation of the **FasTop MVT MOISTURE CONTROL SYSTEM**. Contact the Technical Service Department for assistance prior to application.

Surface Preparation - General

General Polymers systems can be applied to a variety of substrates, if the substrate is properly prepared. Preparation of surfaces other than concrete will depend on the type of substrate, such as wood, concrete block, quarry tile, etc. Should there be any questions regarding a specific substrate or condition, please contact the Technical Service Department prior to starting the project. Refer to Surface Preparation (Form G-1).

Surface Preparation - Concrete

Concrete surfaces shall be abrasive blasted to remove all surface contaminants and laitance. The prepared concrete shall have a surface profile equal to CSP 5 or greater. DO NOT ACID ETCH. Refer to Form G-1. Consult the Technical Service Department if oil or grease is present.

Temperature

Throughout the application process, substrate temperature should be 40°F minimum. Substrate temperature must be at least 5°F above the dew point. Applications on concrete substrates should occur while temperature is falling to lessen offgassing. General Polymers **Epoxy Water Emulsion Primer / Sealer (3477)** must be used prior to the application of FasTop MVT to prevent outgassing through thin slurry or coating finishes. The material should not be applied in direct sunlight, if possible.

- **Do not install outside, call Technical Service Department.**

Application Information @ 1/8"			
Material	Mix Ratio	Theoretical Coverage Per Coat	Packaging
Primer (required when finishing FasTop MVT with a thin film coatings or slurries)			
3477	2:1	300 sq. ft. / gal.	3 or 15 gals
FasTop MVT System			
4050	One Unit	40-45 sq. ft. / unit @ 1/8"	2 gals (Short Filled)
5030	One Unit	35 lbs / unit	35 lbs /bag
Broadcast			
5310-8 (30 mesh)	Broadcast	9 lb. /36 sq ft	50 pounds

FasTop MVT System
Important Notice:

FasTop MVT is a moisture vapor control system that can be applied under any of the General Polymers flooring systems. When the flooring system is a thin mil coating or slurry system, a primer must be applied to the concrete prior to the application of **FasTop MVT**. This will prevent issues related to outgassing from the slab. **Prime with Epoxy Water Emulsion Primer / Sealer (3477)** at 300 feet to the gallon 1-2 hours prior to placing the **FasTop MVT**. DO NOT USE HIGH SOLIDS EPOXY PRIMERS AS THEY WILL SEAL THE CONCRETE.

Mixing and Application

DO NOT PREMIX 4050 PART B HARDENER. OVER EXPOSURE TO AIR AFFECTS PHYSICAL PROPERTIES.

1. Add 4050A (resin) to 4050B (hardener) and mix with low speed drill and Jiffy blade until uniform.
2. Pour 35 lbs. 5030 aggregate while blending materials until no lump remain. Immediately pour mixed material onto the substrate and spread out using a pin rake, screed rake or 1/2" x 1/2" notch trowel. Back roll with a loop roller and/or adhesive roller to assist leveling, if necessary. Allow material to self-level (2-5 minutes).

NOTE: At substrate temperature less than 50°F, the application will be adversely affected.

3. Broadcast 5310-8 (30 mesh) dry silica sand to completion. Coverage will be roughly 1/4 pound per square foot.
4. Allow to cure for a minimum of 2 hours.
5. Remove all loose and unbound aggregate prior to flooring system application.
6. Apply General Polymers flooring system of choice.

Technical Notes

Mixing: Correctly mixing **FasTop MVT** is critical to a successful installation. The mix area needs to be as close to the application area as possible. Open each container of Part A. The material should have a uniform milky appearance. It is common to have a few "brownish" oil spots or a slightly oily film at the surface but no separation of the liquid. Where white material is not readily visible, separation may have occurred. DO NOT attempt to use this material. The emulsion has probably broken and the material will cure too quickly to allow successful installation. DO NOT attempt to mix partial units. Use a heavy duty 1/2" or larger variable speed drill with a mixing blade manufactured by Wall Board, product number PWR Blade 81-001 stocked by some Sherwin-Williams stores as item #1604651. Other mixing blades will not mix this material fast enough. After pouring both 4050 Parts A & B into a pail, mix for about 30 seconds. While mixing, immediately add the 5030 **FasTop MVT** aggregate as quickly as the drill can mix it. Stop mixing as soon as all the aggregate is wet out. Over mixing will affect material flow and workability.

Placement: Get the material out of the bucket as quick as possible. Immediately dump entire mix onto the floor in a ribbon pattern. Spread material using a 1/2" x 1/2" V-notch trowel. The **FasTop MVT** should flow and close the groves caused by the notch trowel in about 10 seconds and continue to level. Due to various environmental changes **FasTop MVT** may not level as well as desired. To overcome this situation, the contractor may reduce the aggregate load by 1 to 3 lbs. per kit. The maximum amount to remove is 3 lbs., which is about 8.5% of the aggregate. Reducing the aggregate will slightly decrease the coverage rate. A quart (32 oz.) container will hold about 3 lbs. of aggregate.

Back-roll: Material leveling can be assisted by backrolling with a texture/loop roller. The loop roller can help work out any trowel marks or waves. Backrolling with a loop roller should be done immediately but not after 10 minutes.

Broadcast: After the material has leveled broadcast to refusal with 30 mesh (5310-8) or larger silica sand. Broadcast must be done 10 minutes before the surface begins to form a cured film.

Planning the length of your runs is critical with fast curing materials. At 70 degrees F no batch-to-batch tie in should exceed 10 minutes or the tie in may be visible after cured. Applying the **FasTop MVT** too thin can also cause lack of flow or leveling. This system is designed to be installed at 100 to 125 mils thick (1/10" – 1/8").

Cleanup

Clean up mixing and application equipment immediately after use. Use toluene or xylene. Observe all fire and health precautions when handling or storing solvents.

Safety

Refer to the MSDS sheet before use. All applicable federal, state, local and particular plant safety guidelines must be followed during the handling and installation and cure of these materials.

Safe and proper disposal of excess materials shall be done in accordance with applicable federal, state, and local codes.

Material Storage

Store materials in a temperature controlled environment (50°F - 90°F) and out of direct sunlight.

Keep resins, hardeners, and solvents separated from each other and away from sources of ignition. One year shelf life is expected for products stored between 50°F - 90°F.

Maintenance

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact the Technical Service Department.

Shipping

- Destinations East of the Rocky Mountains are shipped F.O.B. Cincinnati, Ohio.
- Destinations West of the Rocky Mountains are shipped F.O.B. Victorville, California.

For specific information relating to international shipments, contact your local sales representative.

Disclaimer

The information and recommendations set forth in this document are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product(s) offered at the time of publication. Published technical data and instructions are subject to change without notice.

Consult www.generalpolymers.com to obtain the most recent Product Data information and Application instructions.

Warranty

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams, NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

