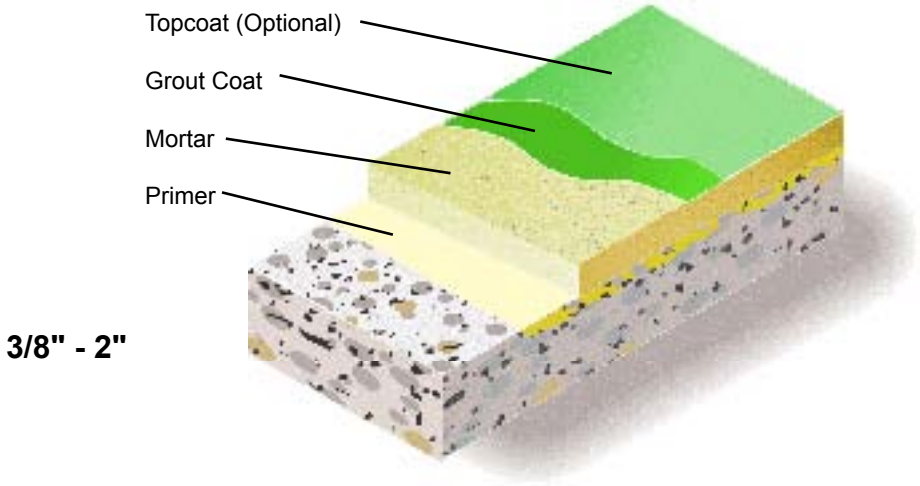
TPM® #79
Slope and Fill Mortar

General Polymers TPM #79 SLOPE AND FILL MORTAR SYSTEM is a high solids, moisture tolerant epoxy mortar underlayment system designed for sloping and filling applications. The superior wetting properties of the binder resin allow high aggregate loading, providing a cost effective alternative to slower curing materials.



Advantages

- Low odor
- Low modulus of elasticity, stress relieving epoxy
- Fast setting, next day turnaround
- 6” in single lift
- Moisture tolerant
- Cost effective

Uses

- New construction and renovation projects that require deep patching or sloping underlayment
- Changing the pitch to an existing slab
- Repair deep holes and gouges

Typical Physical Properties

Color	Clear Amber
Compressive Strength ASTM C 579	8,000 psi
Compressive Modulus ASTM C 579	300,000 psi
Tensile Strength ASTM D 638	3,500 psi
Tensile Elongation ASTM D 638	12-18%
Flexural Strength ASTM D 790	7,000 psi
Adhesion ACI 503R	300 psi failure at concrete
Abrasion Resistance ASTM D 4060	0.1 grams lost
Resistance to Elevated Temperatures	No slip or flow at required temperature of 158ºF

ASTM C = Mortar System
ASTM D = Resin only

Installation

General Polymers materials shall only be installed by approved contractors. The following information is to be used as a guideline for the installation of the **TPM #79 SLOPE AND FILL MORTAR 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 depending upon system selected. Refer to Form G-1.

After initial preparation has occurred, inspect the concrete for bug holes, voids, fins and other imperfections. Protrusions shall be ground smooth while voids shall be filled with a system compatible filler. For recommendations, consult the Technical Service Department.

Temperature

Throughout the application process, substrate temperature should be 50ºF – 90ºF. Substrate temperature must be at least 5ºF above the dew point. Applications on concrete substrate should occur while temperature is falling to lessen offgassing. The material should not be applied in direct sunlight, if possible. Protect material from freezing prior to installation.

Application Information

VOC MIXED		MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<50 g/L	**Primer**	3579	2:1	250 sq. ft./gal	3 or 15 gals
<50 g/L 0 **0**	**Mortar**	3579 7310 3/16-3/8” aggregate 5115 Trowel Mortar Blend	2:1	12 sq. ft./gal / 1½ gal. @1” 75 lbs 37 lbs	3 or 15 gals 50 lbs 50 lbs
<50 g/L	**Grout**	3579	2:1	Varies according to density	3 or 15 gals

Primer

Mixing and Application

1. Add 2 parts 3579A (resin) to 1 part 3579B (hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform. Apply via brush, roller, or spray at a rate of 250 square feet per gallon (6 WFT mils). Wait 1-3 hours for primer to become tacky. This prevents primer from bleeding through and sliding during mortar placement. If primer is to be allowed to cure for more than 4 hours, broadcast lightly but uniformly with clean, dry 20-30 mesh aggregate.

Mortar

Mixing and Application

1. Add 2 parts 3579A (1 gallon resin) to 1 part 3579B (1/2 gallon hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform. Place mixed 3579 in mixer and slowly add 75 lbs. of 7310 aggregate 3/16" - 3/8" aggregate, and 37 lbs. 5115 Trowel Mortar Aggregate Blend. Mix until aggregate is thoroughly 'wet out'. Immediately dump mortar onto substrate and screed to desired thickness.

2. Compact and smooth the mortar using a hand trowel. Allow system to cure overnight.

Grout

Mixing and Application

1. Add 2 parts 3579A (1 gallon resin) to 1 part 3579B (1/2 gallon hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform.

2. Apply 3579 using a spring steel trowel or red rubber squeegee and back roll at a spread rate sufficient to fill any voids and pinholes in the surface. Coverage will vary depending on the density of the existing fill. Allow to cure overnight.

Application Equipment
Brush / Roller

Use 1/4" phenolic core rollers and professional quality, medium stiff natural bristle brushes.

Trowel

Use steel finishing trowel or power trowel such as manufactured by Superior.

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. 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 (50ºF – 90ºF) and out of direct sunlight.

Keep resins, hardeners, and solvents separated from each other and away from sources of ignition.

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.

To learn more, visit us at

www.sherwin-williams.com/protective
or call 1-800-524-5979
to have a representative contact you.

Protective & Marine Coatings 08/12