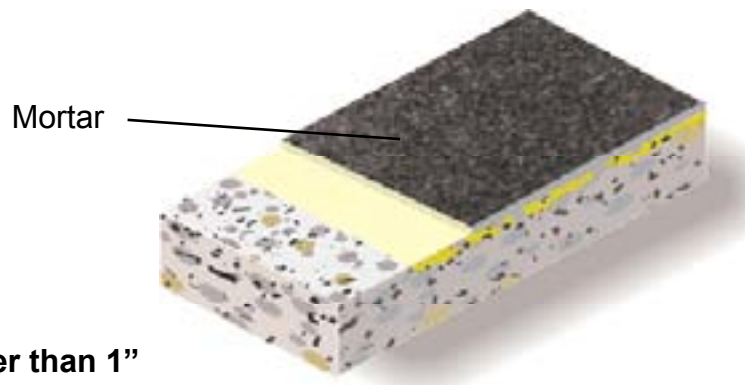




# TPM® #707 POLY-FLO

**General Polymers TPM #707 POLY-FLO** is a single component, cement based, industrial topping that requires only the addition of water to produce a self-leveling mortar. Ideally suited for leveling or resurfacing distressed, rough and uneven concrete floors.



**1/4" - Greater than 1"**

## Advantages

- Easy mixing and placement
- Resistant to cracking
- Highly durable
- Handles heavy loads
- Pumpable or pourable for rapid installation
- Return to light foot traffic in 4 hours
- Return to service in 24 hours

## Uses

- Restoring old worn concrete slabs
- Leveling new concrete slabs
- Resurfacing rain damaged slabs
- Interior and exterior environments
- Food and Beverage plants
- Underlayment or repair material under other General Polymers products and systems

## Limitations

- If this material is being used a sloping, fill or repair material under a General Polymers topcoat or floor system the surface should be abraded to remove laitance prior to coating.

## Typical Physical Properties

Working Time		20 minutes
Initial Set Time @ 75°F (23.9°C)		1 hour
ASTM C 266		
Final Set Time		2 hours
Cure Time		
72°F, 50% RH	Recoat	24 hours
	Dry to Touch	2 hours
	Full Cure	28 days
Compressive Strength		
ASTM C 109	(psi)	(MPa)
1 day	1,600	14.48
7 days	3,200	28.96
28 days	5,000	41.37
Flexural Strength	(psi)	(MPa)
ASTM C 293	950	8.2
28 days		
Bond Strength		
ASTM C 882	(psi)	
modified 28 days	1,750	
Tensile Strength		
ASTM C 190	(psi)	
28 days	850	

## 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 #707 POLY-FLO**. 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 50°F – 90°F. Substrate temperature must be at least 5°F 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 — Surface Prep Profile CSP 3-5

VOC		MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<b>Standard Mix 1/4"</b>					
<50 g/L	<b>Primer</b>	3579 5310 Dry Silica 30 mesh	2:1 Full Broadcast	250-300 sq. ft. / mixed gal 100-200 lbs per 1,000 sq. ft.	3 or 15 gals 50 lbs
0 g/L	<b>Mortar</b>	TPM 707 plus 1 gallon clean water	50 lbs bag	24 sq. ft. @ 1/4"	50 lbs bag
VOC		MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<b>For Repairs Greater Than 1"</b>					
<50 g/L	<b>Primer</b>	3579 5310 Dry Silica 30 mesh	2:1 Full Broadcast	250-300 sq. ft. / mixed gal 100-200 lbs per 1,000 sq. ft.	3 or 15 gals 50 lbs
0 g/L	<b>Mortar</b>	TPM 707 plus 1 gallon clean water  Aggregate	50 lbs bag  25 lbs 3/8" clean, washed and dried pea gravel	8 sq. ft. / 1"	50 lbs

## Primer

### Mixing and Application

1. Add 2 parts 3579A (resin) to 1 part 3579B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations.
2. 3579 may be applied via spray, roller or brush. Apply evenly, with no puddles, at a spread rate of 250-300 sq. ft. per gallon. Immediately, broadcast 5310 Dry Silica Sand (30 mesh) at 100-200 lbs per 1,000 sq ft.
3. Allow to cure a minimum of 4 hours.

## Mortar

### Mixing and Application

1. Mix 1 gallon of potable water to 1- 50 lb. bag of TPM 707 POLYFLO. Mix thoroughly using a slow speed drill with Jiffy mixer, mortar mixer, or a pump/mixer combination approximately 3-5 minutes. Do not over mix; avoid whipping air into the mixture. Mix to a smooth batter consistency. Pour or pump self leveling mortar into wet primer at a minimum thickness of 1/4". For applications over 1/2" add clean 3/8" pea gravel at the rate of 25 lbs. per 50 lb bag. Allow material to self level. No curing compounds or curing procedures are required. For additional information contact General Polymers Technical Services Department.

NOTE: DO NOT mix more material than can be placed within 15 minutes of mixing at 75°F. High temperatures will reduce working time if material stiffens. Do not add additional water beyond the recommended amount or if material begins to stiffen.

Precautions DO NOT apply TPM #707:

- Over fresh, plastic concrete
- Over unstructurally sound concrete substrate
- Where exposed to rain, snow or other continually or frequently wet conditions
- DO NOT use on floors that will be exposed to acids (or their salts) or other materials or liquids that may seriously and/or rapidly attack portland cement.
  - DO NOT APPLY TPM #707 if base concrete slab is below 40°F or when ambient temperature is expected to be below 40°F during placement and/or before topping will take final set.

## 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.

### CAUTION:

Contains Portland Cement and Silica. Avoid breathing dust. Cement powder or freshly mixed concrete, grout or mortar may cause skin injury. Avoid contact with skin; wash exposed areas promptly with water. If any cement powder or mixture gets into eyes, rinse immediately and repeatedly with water. Get prompt medical attention.

## 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.

## 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](http://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.



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