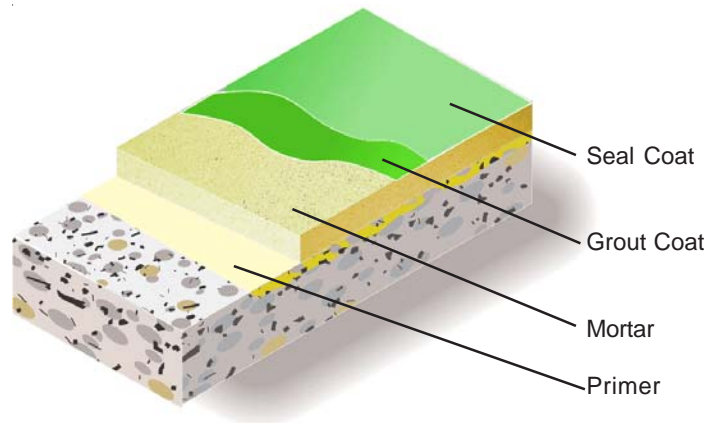




# TPM® #115 Standard Troweled Mortar

General Polymers TPM #115 STANDARD TROWELED MORTAR Systems are 1/8" - 1/4" high build protective resurfacing systems utilizing an epoxy and silica aggregate mortar, high build grout and seal coats. Different seal coat options are available for specific needs.



**1/4" Smooth**

**Advantages**

- High solids
- VOC compliant low odor during installation
- Protects substrates from conditions of thermal shock, and heavy impact and wear
- Resists degradation from many chemicals, acids and alkalies
- Wide range of colors available
- Available with an antimicrobial agent

**Uses**

- Traffic aisles and manufacturing
- Pulp and paper plants
- Waste water treatment facilities
- Pharmaceuticals
- Drum storage areas
- Petroleum refineries
- Food and beverage facilities

**Typical Physical Properties @1/4"**

Color	Standard Colors Computerized custom color matching available upon request
VOC (Volatile Organic Content)	
SCAQMD Method 304	Compliant
EPA Method 24	Compliant
Hardness @ 24 hours, Shore D	80/65
ASTM D 2240	
Compressive Strength	15,000 psi
ASTM C 579	
Tensile Strength	
ASTM C 307	1,700 psi
ASTM D 638	6,000 psi
Flammability	Self-Extinguishing over concrete
Flexural Strength	3,700 psi
ASTM C 580	
Adhesion	350 psi
ACI 503R	100% concrete failure
Abrasion Resistance	70-90 mgs lost
ASTM D 4060, CS-17 Wheel, 1,000 cycles	
Impact Resistance	Withstands 16 ft lbs
MIL-D-3134, Sec.4.7.3	without cracking, delamination or chipping
Resistance to Elevated Temperatures	No slip or flow at required temperature of 158°F
MIL-D-3134J	

ASTM C = Mortar system  
ASTM D = Resin only

## Installation

The following information is to be used as a guideline for the installation of the TPM #115 STANDARD TROWELED MORTAR Systems. 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 4-6. 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 General Polymers system 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 substrates should occur while temperature is falling to lessen offgassing. The material should not be applied in direct sunlight, if possible.

### Application Information

Material	Mix Ratio	Theoretical Coverage Per Coat Concrete	Packaging
Primer 3579	2:1	250 sq. ft. / gal	3 or 15 gals
Mortar 3561	4:1	33 sq. ft. / 1¼ gal @ 1/4" 44 sq. ft. / 1¼ gal @ 3/16" 66 sq. ft. / 1¼ gal @ 1/8"	1.25 - 250 gals
5115		70 lbs / 1¼ gal	50 lbs
Grout Coat: 3744G	2:1	100 sq. ft. / gal	3 or 15 gals
Seal Coat: 3744	2:1	200 sq. ft. / gal	3 or 15 gals

**\* Additional 5115 aggregate may be added to 1.25 gallon of mixed epoxy to facilitate power troweling (10 lbs. recommended).**

Different optional seal coats - Consult individual technical Data Sheet for mixing and application instructions.

**4408 WB Polyurethane**  
**3505 Stipple Epoxy**

## **Primer**

### ***Mixing and Application***

1. Add 2 parts 3579 A (resin) to 1 part 3579 B (hardener) by volume. Mix with low speed drill and Jiffy mixer 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 5-8 mils, evenly, with no puddles. Coverage will vary depending upon porosity of the substrate and surface texture.

3. Wait until primer is tacky (minimum 1 hour), before applying the mortar. If primer is not going to be topped within open time, broadcast silica sand into resin lightly but uniformly and allow to cure overnight.

## **Mortar**

### ***Mixing and Application***

1. Premix 3561A (resin) using a low speed drill and Jiffy mixer. Mix for one minute and until uniform, exercising caution not to whip air into the material.

2. Add 4 parts 3561 A (4 quarts resin) to 1 part 3561B (1 quart hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform. Place mixed 3561 into mortar mixer. Slowly add 70 pounds of 5115 aggregate. Mix until aggregate is thoroughly "wet out". Immediately dump mortar onto substrate and screed to desired thickness.

3. Compact and smooth the mortar using a hand or power trowel. Allow to cure (Cure times vary depending on environmental conditions) before applying grout coat.

## **Grout Coat**

### ***Mixing and Application***

1. Premix 3744GA (resin) using a low speed drill and Jiffy mixer. Mix for one minute and until uniform, exercising caution not to whip air into the material.

2. Add 2 parts 3744GA (resin) to 1 part 3744B (hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform.

3. Apply 3744G using a spring steel trowel or red rubber squeegee and back roll using a 1/4" nap roller at a spread rate of 100 sq. ft. per gallon, taking care not to pull the grout from the voids in the floor. Allow to cure (Cure times vary depending on environmental conditions) before applying seal coat.

## **Seal Coat**

### ***Mixing and Application***

1. Premix 3744A (resin) using a low speed drill and Jiffy mixer. Mix for one minute and until uniform, exercising caution not to whip air into the material.

2. Add 2 parts 3744A (resin) to 1 part 3744B (hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform.

3. Apply 3744 using a 1/4" nap roller at a spread rate of 200 sq. ft. per gallon. Allow to cure 24 hours minimum before opening to traffic.

**Note: Epoxy materials will appear to be cure and "dry to touch" prior to full chemical cross linking. Allow epoxy to cure for 2-3 days prior to exposure to water or other chemicals for best performance.**

Different optional seal coats - Consult individual Technical Data Sheet for mixing and application instructions.

## **4408 WB Polyurethane 3505 Stipple Epoxy**

### ***Application Equipment***

#### ***Brush / Roller***

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

#### ***Trowel***

Use steel finishing trowel or epoxy mortar 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. 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

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Consult [www.generalpolymers.com](http://www.generalpolymers.com) to obtain the most recent Product Data information and Application instructions.

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