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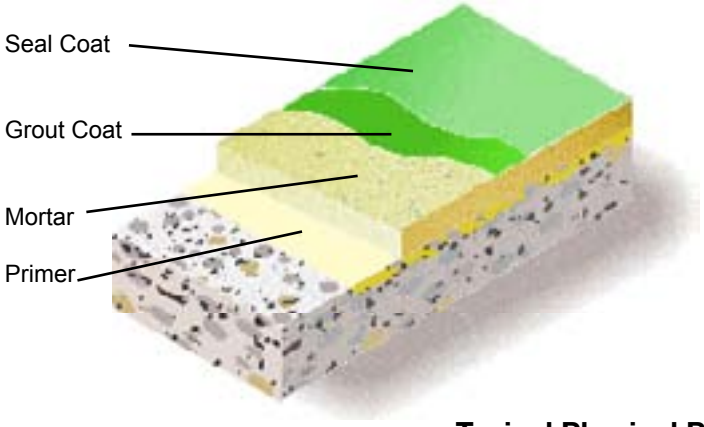
TPM® #115 Standard Troweled Mortar

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
- 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

Color	Standard Colors Computerized custom color matching available upon request
Hardness @ 24 hours, Shore D ASTM D 2240	80/65
Compressive Strength ASTM C 579	15,000 psi
Tensile Strength	
ASTM C 307	1,700 psi
ASTM D 638	6,000 psi
Flammability ASTM E 648 Critical Radiant Flux	Class I, 0.93
Flexural Strength ASTM C 580	3,700 psi
Adhesion ACI 503R	300 psi concrete failure
Abrasion Resistance ASTM D 4060, CS-17 Wheel, 1,000 cycles	70-90 mgs lost
Impact Resistance MIL-D-3134, Sec.4.7.3	Withstands 16 ft lbs without cracking, delamination or chipping
Resistance to Elevated Temperatures MIL-D-3134J	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 #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 50ºF - 90ºF. Substrate temperature must be at least 5ºF 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 CSP 4-6

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	Mortar	3561 5115	4:1	33 sq. ft. / 1.25 gal @ 1/4” 44 sq. ft. / 1.25 gal @ 3/16” 66 sq. ft. / 1.25 gal @ 1/8” 70 lbs / 1 gal	1.25 to 250 gals 50 lbs
<100 g/L	Grout coat	3745 Premeasured Units	2:1	100 sq. ft. / gal	1, 5, or 15 gals
<100 g/L	Seal Coat	3745 Premeasured Units	2:1	100 sq. ft. / gal	1, 5, 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.

3505 Stipple Epoxy
4638 HS Polyurethane Floor Enamel

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 3745A (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 3745A (resin) to 1 part 3745B (hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform.

3. Apply 3745 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 3745A (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 3745A (resin) to 1 part 3745B (hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform.

3. Apply 3745 using a 1/4” nap roller at a spread rate of 200 sq. ft. per gallon.

4. 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.

3505 Stipple Epoxy
4638 HS Polyurethane Floor Enamel

Application Equipment

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

Trowel
Use steel finishing towel 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 (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.

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