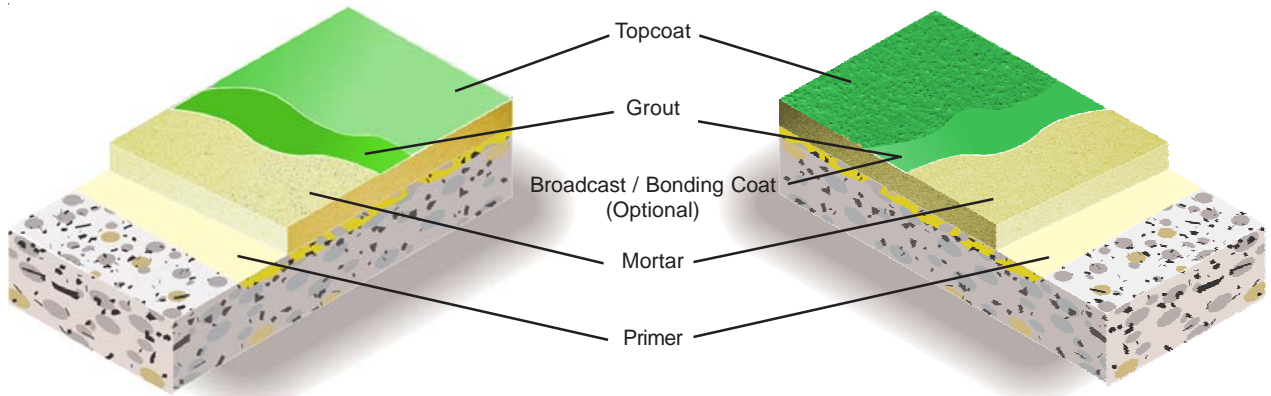




TPM® #12 NOVO-FLO® Solvent / Acid Resistant

General Polymers TPM #12 NOVO-FLO SOLVENT / ACID RESISTANT SYSTEM is a high solids, heavy duty trowel applied epoxy mortar system which resists degradation from many aggressive acids, alkalis and solvents. TPM #12 develops its physical strength quickly, reducing costly downtime. TPM #12 is installed at a 1/4" thickness, providing a highly serviceable surface which resists thermal shock, impact, and abrasion from heavy traffic, and in areas subject to severe chemical exposure.



1/4" System

Advantages

- VOC compliant for minimal odor during installation
- Protects substrates from heavy conditions of thermal shock, impact and wear
- Resists degradation from many chemicals, acids and alkalis

Uses

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

Typical Physical Properties

Color	Steel Gray, Charcoal, Classic Tile Red
VOC (Volatile Organic Content) EPA method 24 SCAQMD Method 304	Compliant Compliant
Compressive Strength ASTM C 579	12,000 psi
Tensile Strength ASTM C 307	4,500 psi
Flexural Strength ASTM C 580	5,000 psi
Adhesion ACI 503R	350 psi 100% concrete failure
Abrasion Resistance ASTM D 4060, CS-17 Wheel, 1,000 cycles	70-90 mgs lost
Flammability	Self-extinguishing over concrete

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 #12 NOVO-FLO SOLVENT/ACID RESISTANT FLOORING 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 3-5. 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 3712 5115	4:1	33 sq. ft. @ 1/4" per 1 1/4 gal 70 lbs / 1 1/4 gal	1.25 or 5 gals 35 lb bag
Grout Coat 3741	2:1	100 sq. ft. / gal	3 or 15 gals
Optional: 5310 Dry Silica Sand (30 mesh) or other approved aggregate	For seeding	0.2 lbs / sq. ft.	100 lb bag
Seal Coat 3741	2:1	125-150 sq. ft. / gal	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. Premix 3712A (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 3712A (1 gallon resin) to 1 part 3712B (1 quart hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform. Place mixed 3712 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 system to cure overnight.

Grout

Mixing and Application

1. Premix 3741A (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 3741A (resin) to 1 part 3741B (hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform.

3. Apply 3741 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.

4. If a skid inhibiting texture is desired, broadcast 5310 Dry Silica Sand (30 Mesh) or other approved aggregate to excess into the wet grout coat. Allow to cure overnight.

5. Remove excess aggregate using a clean, stiff bristled broom or vacuuming before applying seal coat.

Seal Coat

Mixing and Application

1. Premix 3741A (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 3741A (resin) to 1 part 3741B (hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform.

3. Apply 3741 using a 1/4" nap roller at a spread rate of 125-150 sq. ft. per gallon evenly, with no puddles making sure of uniform coverage. **Take care not to puddle materials and insure even coverage.**

4. Allow to cure 24 hours before opening to light foot traffic.

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.

mixer. Mix for three minutes and until uniform, exercising caution not to introduce air into the material.

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 to obtain the most recent Product Data information and Application instructions.

Warranty

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