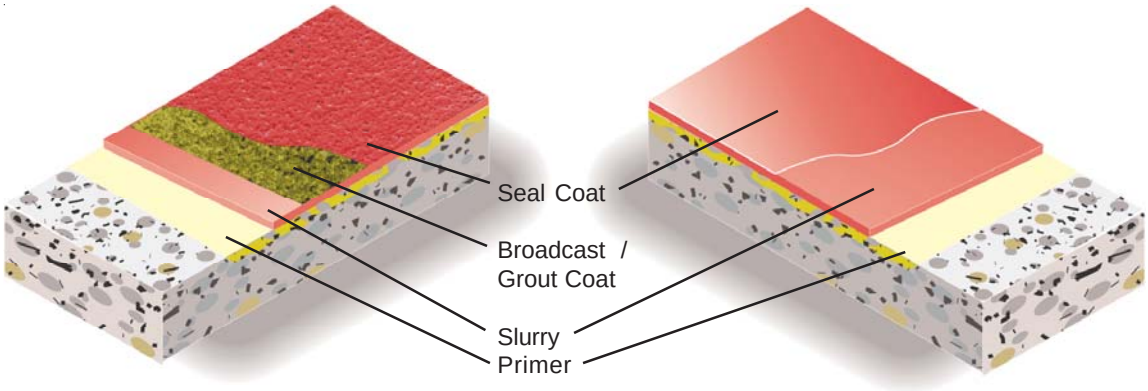
THE SHERWIN - WILLIAMS COMPANY

General Polymers®
High performance floor systems

TRAFFICOTE™ #12
NOVO-FLO® SOLVENT / ACID RESISTANT
Self-Leveling Slurry

General Polymers TRAFFICOTE #12 NOVO-FLO SOLVENT / ACID RESISTANT SELF-LEVELING SLURRY SYSTEM is a high solids, heavy duty, novolac epoxy slurry system which resists degradation from certain aggressive acids, alkalies and solvents. Its fast physical strength development makes it ideal for areas where quick turn around is desired.



1/8" Non-Skid System **1/16" Smooth System**

Advantages

- Resists harsh chemicals
- VOC compliant (Volatile Organic Content)
- Impact resistant
- Maximum job productivity, minimum downtime
- Slip resistant
- Chemical and stain resistant

Uses

- Semiconductor manufacturing
- Food / beverage processing areas
- Chemical processing
- Clean rooms
- Pulp and paper plants
- Waste water treatment facilities
- Petroleum refineries
- Pharmaceutical facilities

Typical Physical Properties

Color	Classic Tile Red, Steel Gray, Charcoal
Adhesion ACI 503R	350 psi 100% concrete failure
Tensile Strength ASTM C 307	6,000 psi
Tensile Elongation ASTM D 638	3% min.
Hardness, Shore D ASTM D 2240	80
Compressive Strength ASTM C 579	12,000 psi
Abrasion Resistance ASTM D 4060, CS-17 Wheel, 1,000 cycles	70-90 mgs lost
Flammability	Self-Extinguishing over concrete
Flexural Strength ASTM C 580	4,700 psi

ASTM C = Mortar System

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 TRAFFICOTE #12 NOVO-FLO SOLVENT / ACID RESISTANT SELF-LEVELING SLURRY 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 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.

Application Information

Material	Mix Ratio	Theoretical Coverage Per Coat Concrete	Packaging
Primer			
3579	2:1	250 sq. ft. / gal	3 or 15 gals
Slurry			
3712	4:1	45 sq. ft. / gal	1.25 or 5 gals
5350 Trafficote Filler		4.8 lbs. / gal	100 lbs.
5310 Dry Silica Sand		10.4 lbs. / gal	100 lbs.
Skid-Inhibiting: @ 1/8"			
5310 Dry Silica Sand 30 mesh For Seeding or other approved aggregate		.6 lb. / sq. ft.	100 lbs.
Grout			
3741	2:1	80-100 sq. ft. / gal	3 or 15 gals
Seal Coat			
3741	2:1	200 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. 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 (usually 1 hour minimum), before applying the slurry. If primer is not going to be topped within open time, broadcast silica sand into resin lightly but uniformly and allow to cure a minimum of 24 hours.

Slurry Coat
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 (resin) to 1 part 3712B (hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform.

3. Slowly pour 5350 Trafficote Filler and 5310 Dry Silica sand (40-60 mesh) to mixed epoxy. Blend materials until no lumps remain and immediately pour mixed material onto the substrate and pull out using a 1/4" v-notched red rubber squeegee. Allow material to self-level (5-10 minutes) and backroll with a loop roller.

4. Allow to cure overnight.

Seal Coat - Smooth @ 1/16"
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 introduce 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. To insure proper system cure and performance, strictly follow mix ratio recommendations.

3. Apply 3741 using a flat trowel or flat squeegee and backroll with 1/4" nap roller at a spread rate of 200 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 minimum before opening to traffic.

Broadcast Skid-Inhibiting @ 1/8"
Mixing and Application

1. Broadcast 5310 Dry Silica Sand (30 mesh) or other approved aggrgate to excess into wet slurry so no wet material is visible. Aggregate should be broadcast within one (1) hour of slurry application to ensure they are properly seated.

2. Allow to cure for 24 hours, sweep off excess aggregate with a clean, stiff bristled broom. Clean aggregate can be saved for future use. All imperfections such as high spots should be smoothed before the application of the seal coat.

NOTE: The floors finished appearance depends on the manner in which the aggregate has been applied. In grass seed like fashion, allow the aggregate to fall after being thrown upward and out. **DO NOT THROW DOWNWARD AT A SHARP ANGLE USING FORCE.**

Grout 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 introduce 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. To insure proper system cure and performance, strictly follow mix ratio.

3. Apply 3741 using flat trowel or flat squeegee and backroll with 1/4" nap roller at a spread rate of 80-100 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 minimum before opening to traffic.

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 introduce 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. To insure proper system cure and performance, strictly follow mix ratio.

3. Apply 3741 using flat trowel or flat squeegee and backroll with 1/4" nap roller at a spread rate of 200 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 minimum before opening to traffic.

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. One year shelf life is expected for products stored between 50ºF - 90ºF.

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.