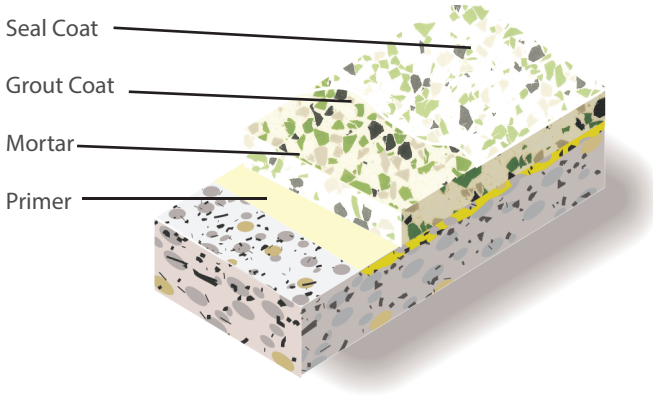
SofTop Decorative Flooring System

General Polymers *SofTop* Decorative Flooring System is a seamless, resilient and decorative flooring system combining high solids flexible epoxy resin with colored rubber chips in a troweled mortar system. The result is a seamless floor that offers ergonomic comfort and noise reduction versus other traditional hard surface floor systems.



Advantages

- Aesthetically pleasing appearance
- Enhanced slip resistance
- Variety of color and design options
- Comfortable and sound absorbing
- Durable and wear resistant 1/4" system
- Stain resistant
- Easy to clean

Uses

- Commercial, Retail and Institutional facilities
- Hospitals
- Operating Suites
- Long term care facilities
- Libraries
- Multi-Purpose rooms
- Museums and Theaters
- School hallways

Typical Physical Properties

Binder Resin	
Color	Standard Colors and Custom Colors
Hardness, @ 24 hours Shore A ASTM D 2240	80/70
Adhesion ACI 503R	300 psi concrete failure
Water Absorption ASTM D 570	0.1%
System	
Resistance to Elevated Temperatures MIL-D-3134J	No slip or flow at required temperature of 158ºF
Residual Indentation ASTM F 1914	1% thickness (140 lb. load)
Flammability ASTM E 648 Critical Radiant Flux	Class I
Impact Resistance ASTM D 4226	Greater than 160 in./lbs (160 lb. load)
Noise Reduction Coefficient ASTM C 423	0.05

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 *SofTop* Decorative 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 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 60ºF – 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. Protect material from freezing prior to installation.

Application Information — Surface Prep Profile CSP 3-5

VOC MIXED		MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<50 g/L	Primer	3579	2:1	250-300 sq ft / gal	3 or 15 gal
<150 g/L 0 0	Mortar @ 1/4"	3557 5600 Rubber 5270	4:1	50-60 sq. ft. / 5 gals 60-80 lbs / 5 gals 20-24 lbs / 5 gals	5 -25 gals 55 lb. bag 50 lb. bag
<10 g/L	Grout	4850	2:1	600-800 sq. ft. / gal	3 or 15 gals
<10 g/L	Seal Coat	4850	2:1	600-800 sq. ft. / gal	3 or 15 gals

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

General Polymers 4685
AquArmor WBU

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 roller or brush. Apply at 250-300 square feet per gallon to yield 5-6 mils WFT evenly with no puddles making sure of uniform coverage. Coverage will vary depending upon porosity of the substrate and surface texture.

3. Wait until primer is tacky (usually one 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 (Batch size 1.25 gallons)

1. Premix 3557A (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to whip air into the material.

2. Add 4 parts 3557A (1 gallon resin) to 1 part 3557B (1 quart hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. Add 16-20 lbs. (2-21/2 gallons) 5600 SofTop Rubber Aggregate blend per 1.25 gallons of mixed 3557 resin and add 1/2 gal 5270 filler. Continue mixing until all aggregates are distributed and wet.

3. Immediately pour the mixed material onto the substrate and hand trowel in place. Back roll mortar with a rib roller or loop roller to bring resin to the surface and fill voids between the rubber aggregate.

4. Allow material to cure 18-24 hours minimum before sanding and applying grout coat.

Mortar
Mixing and Application (Batch size 5 gallons)

1. Premix 3557A (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to whip air into the material.

2. Add 4 parts 3557A (4 gallons resin) to 1 part 3557B (1 gallon hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. Pour mixed liquids into mortar mixer add 60-80 lbs. (10-12 gallons) 5600 SofTop Rubber Aggregate blend per 5 gallons of mixed 3557 resin and add 2 gallons 5270 filler. Continue mixing until all aggregates are distributed and wet.

3. Immediately pour the mixed material onto the substrate and hand trowel in place. Back roll mortar with a rib roller or loop roller to bring resin to the surface and fill voids between the rubber aggregate.

4. Allow material to cure 18-24 hours minimum before sanding and applying grout coat.

Grinding / Sanding

1. According to the size of area being installed, contractor may select a wood floor sander, edging sander, buffer machine or hand grinding tool to prepare surface for finishing. Rough sanding would required a 40-60 grit sand paper until surface is flat and uniform.

For larger areas, contractor should consider using a planetary grinder using a 24-60 grit diamond grinding head.

After grinding is complete, you are prepared to complete the final sanding.

2. Sanding all surfaces prior to grouting should be completed with 60 grit sanding screens and buffer machine.

3. After sanding is completed, vacuum entire area and tack rag with a damp dropcloth removing all fine powder from the sanding procedure.

Grout (3 Pint Batch)
Mixing and Application

1. Add 2 parts resin and 1 part hardener by volume. Mix with low speed drill and Jiffy blade until uniform. Material can be reduced up to 10% with acetone after mixing.

2. Apply General Polymers 4850 at spread rate of 600-800 sq. ft. per gallon to yield 10-15 mils WFT using a squeegee. Back roll with a non shedding 3/8" or lower nap roller.

Note: Use dip and roll method in hot and humid conditions. Moisture in the air will accelerate the cure time. Do not exceed 10 minutes between batch to batch mixes to avoid changes at tie in. Use natural breaks to divide sections of the floor.

Required Tools: Drill, Jiffy blade, Squeegee, non shedding 3/8" or lower nap roller with solvent resistant core.

Seal Coat
Mixing and Application

1. Add 2 parts resin and 1 part hardener by volume. Mix with low speed drill and Jiffy blade until uniform. Material can be reduced up to 10% with acetone after mixing.

2. Apply General Polymers 4850 at spread rate of 600-800 sq. ft. per gallon to yield 10-15 mils WFT using a squeegee. Back roll with a non shedding 3/8" or lower nap roller.

Note: Use dip and roll method in hot and humid conditions. Moisture in the air will accelerate the cure time. Do not exceed 10 minutes between batch to batch mixes to avoid changes at tie in. Use natural breaks to divide sections of the floor.

Required Tools: Drill, Jiffy blade, Squeegee, non shedding 3/8" or lower nap roller with solvent resistant core.

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

General Polymers 4685
AquArmor WBU

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 SDS 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.

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.

To learn more, visit us at

www.sherwin-williams.com/protective
or call 1-800-524-5979
to have a representative contact you.

Protective & Marine Coatings 11/19