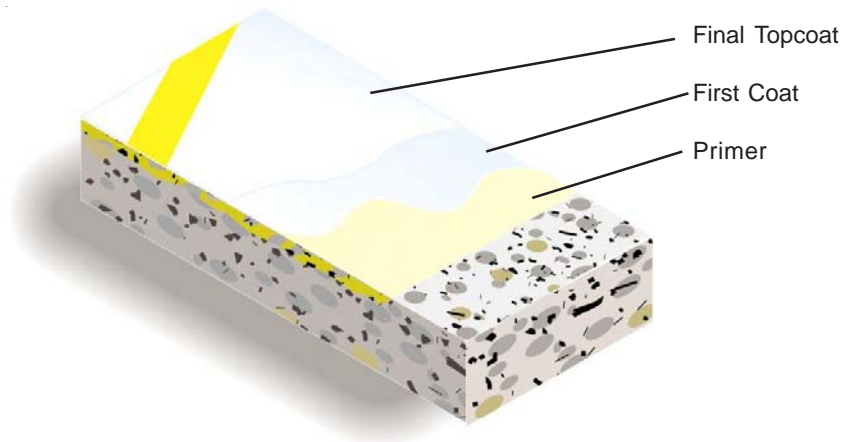


EPOXY FLOOR COATINGS

General Polymers EPOXY FLOOR COATINGS are high performance epoxy coatings that have been designed to provide a semi-gloss, high gloss or stipple finish with above average chemical resistant protection. EPOXY FLOOR COATINGS offer protection against splash, spillage and fumes of many process chemicals, caustic cleaners, oils, fuels and acids. EPOXY FLOOR COATINGS provide attractive finishes and should be used wherever a high-build, protective coating is required.



Advantages

- High solids
- Low VOC and low odor during installation
- Easy to maintain
- Chemical and abrasion resistant
- High mil build per coat speeds project turnaround
- Good hiding
- Acceptable for use in USDA inspected facilities

Uses

- Warehouses
- Industrial plants

Typical Physical Properties

Color	Standard Colors Computerized custom color matching available upon request
Abrasion Resistance ASTM D 4060, CS-17 Wheel, 1,000 cycles	100 mgs lost
Hardness, Shore D ASTM D 2240	75/65
Resistance to Elevated Temperatures MIL-D-3134J	No slip or flow at required temperature of 158°F
Adhesion ACI 503R	300 psi concrete failure
Flammability	Self-extinguishing over concrete

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 EP-OXY FLOOR COATINGS. 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 1-3. 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 60°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	Packaging
Primer 3579	2:1	250 sq. ft. / gal.	3 or 15 gals
Seal Coat Options:			
3505 (2 coats)	4:1	160-200 sq. ft. / gal.	1.25 - 25 gals
3555	1:1	100-150 sq. ft. / gal.	2 or 10 gals.
3589 (2 coats)	4:1	160-200 sq. ft. / gal.	1.25 - 25 gals
3745 (2 coats) Premeasured units	2:1	200-250 sq. ft. / gal.	1, 5 or 15 gals

NOTE: Epoxy materials may tend to blush at the surface especially in humid environments. After surface is primed and before installation of each subsequent coat, surface must be examined for blush (a whitish greasy film and/or low gloss). The blush must be completely removed prior to recoating using warm detergent water or through solvent wipe.

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 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. Allow to cure 12-24 hours.
4. Check for surface blush. Remove any blush with detergent. Wash prior to recoat.

Seal Coat 3505 (Stipple)

Mixing and Application

1. Premix 3505A (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 3505A (resin) to 1 part 3505B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. Apply material via a flat trowel and back roll using a 1/4" nap roller at a spread rate of 160-200 sq. ft. per gallon to yield 8-10 mils WFT.
3. Allow material to cure 8-10 hours before applying second coat.
4. Repeat Steps 1 and 2 for seal coat application. Allow to cure 24 hours minimum before opening to light foot traffic.

Seal Coat Flexible 3555

Mixing and Application

1. Premix 3555A (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to whip air into the materials.
2. Add 1 part 3555A (resin) to 1 part 3555B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. Apply material using a 1/8" v-notched squeegee at a spread rate of 100-150 sq. ft. per gallon.
3. Allow material to cure. Cold Temperatures will increase cure time.

Seal Coat 3589

Mixing and Application

1. Premix 3589A (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to whip air into the materials.

2. Add 4 parts 3589A (resin) to 1 part 3589B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. Apply material using a 1/4" nap roller at a spread rate of 160-200 sq. ft. per gallon.

3. Allow material to cure before applying second coat.

4. Repeat Steps 1 and 2 for seal coat application. Allow to cure 24 hours minimum before opening to light foot traffic.

Seal Coat 3741

Mixing and Application

1. Premix 3741A (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 2 parts 3741A (resin) to 1 part 3741B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. Apply material to floor in thin bands and pull out using a red rubber squeegee and back roll using a 1/4" nap roller at a spread rate of 160-200 sq. ft. per gallon to yield 8-10 mils WFT.

3. Allow material to cure before applying second coat.

4. Repeat Steps 1 and 2 for seal coat application. Allow to cure 24 hours minimum before opening to light foot traffic.

Seal Coat 3745 (High Gloss)

Mixing and Application

1. Premix 3745A (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 2 parts 3745A (resin) to 1 part 3745B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. Apply material to floor in thin bands and pull out using a red rubber squeegee and back roll using a 1/4" nap roller at a spread rate of 200-250 sq. ft. per gallon to yield 6-8 mils WFT.

3. Allow material to cure before applying second coat.

4. Repeat Steps 1 and 2 for seal coat application. Allow to cure 24 hours minimum before opening to light foot traffic.

Epoxy materials will appear to be cured 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.

Application Equipment

Brush / Roller

Use 1/4" phenolic core rollers.

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

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.

