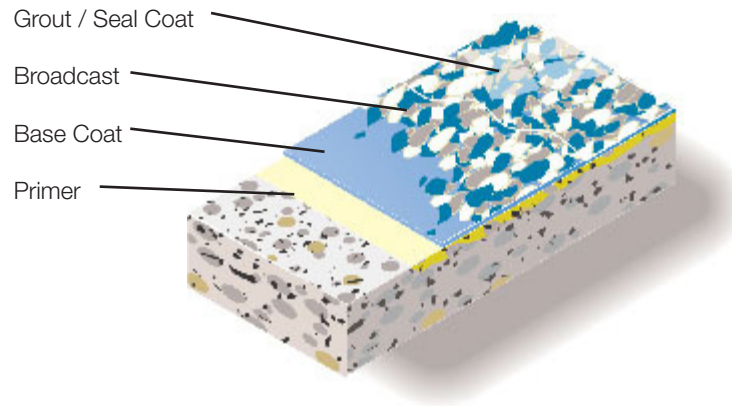




# DECORATIVE MOSAIC EPOXY COATING SYSTEM

**General Polymers DECORATIVE MOSAIC EPOXY COATING SYSTEM** is a mosaic pattern floor covering. These vinyl chips are incorporated in a clear or pigmented epoxy and sealed with a clear, high gloss, polyurethane finish. Its innovative base chemistry also provides tough chemical resistant protection.



**20-30 mils**

## Advantages

- Aesthetically pleasing appearance
- Limitless color options
- Seamless
- Chemical and stain resistant
- High gloss finish

## Uses

- Nursing homes and healthcare facilities
- Clean rooms and pharmaceuticals
- Office buildings
- Locker and restrooms
- Cafeterias

## Typical Physical Properties

Color	Custom Color Blends Available
Abrasion Resistance ASTM D 4060, CS-17 Wheel, 1,000 cycles	63 mgs lost
Flexural Strength ASTM C 580	10,000 psi
Adhesion ACI 503R	300 psi concrete failure
Flammability	Self-Extinguishing over concrete
Impact Resistance MIL-D-3134J	Direct, inch pound greater than 160, passes Reverse, inch pound greater than 80, passes
Resistance to Elevated Temperatures MIL-D-3134J	No slip or flow at required temperature of 158°F

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 **DECORATIVE MOSAIC EPOXY COATING 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 50°F – 90°F. Substrate temperature must be at least 5°F 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 1-3

VOC MIXED		MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<50 g/L	<b>Primer</b>	3579	2:1	200-300 sq. ft./gal	3 or 15 gals
<100 g/L 0	<b>Body Coat</b>	3746 6750/6755	2:1 To Excess	200-300 sq. ft./gal 100-200 lbs / 1,000 sq. ft.	3 or 15 gals 25 lbs.
<100 g/L	<b>Grout Coat</b>	3746	2:1	160-250 sq. ft./gal	3 or 15 gals
<250 g/L	<b>Seal Coat</b>	4686	1:1	250-400 sq. ft./gal	2 or 10 gals

For additional topcoat options consult the General Polymers Topcoat Selection Guide, or contact your Sherwin Williams representative.

## 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 at a spread rate of 200-300 sq. ft. per gallon, evenly, with no puddles. Coverage will vary depending upon porosity of the substrate and surface texture.

3. 3579 application varies upon usage.

NOTE: Epoxy materials may tend to blush at the surface especially in humid environments. After the 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.

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.

## Base Coat

### Mixing and Application

1. Premix 3746A (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to introduce air into the material.

2. Add 2 parts 3746A (resin) to 1 part 3746B (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.

3. Apply 3746 using a squeegee or trowel and back roll with a 1/4" nap roller at a spread rate of 200-300 square feet per gallon making sure of uniform coverage. Take care not to puddle materials and insure even coverage.

4. Allow material to self-level 10-15 minutes. Begin evenly broadcasting 6750/6755 Vinyl Chips into wet resin much the same as grass seed is spread. Vinyl Chips should be broadcast in such a way that the chips falls lightly into resin without causing the resin to move. Continue broadcasting to excess until the floor appears completely dry.

5. Allow to cure for 12 hours, sweep off excess vinyl chips with a stiff bristled broom.

## Grout Coat

### Mixing and Application

1. Premix 3746A (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to introduce air into the material.

2. Add 2 parts 3746A (resin) to 1 part 3746B (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.

3. Apply 3746 using a squeegee or trowel and back roll with a 1/4" nap roller at a spread rate of 160-250 square feet per gallon making sure of uniform coverage. Take care not to puddle materials and insure even coverage.

4. Allow to cure (Cure times vary depending on environmental conditions) before applying seal coat.

## Seal Coat

### Mixing and Application DO NOT PREMIX PART B HARDENER

1. Premix 4686A (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to introduce air into the material.

2. Add 1 part 4686A (resin) to 1 part 4686B (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.

3. Apply 4686 using a 1/4" nap roller at a spread rate of 250-400 square feet 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 light foot traffic.

5. If a second seal coat is required, lightly sand and wipe clean prior to coating.

## 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. 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) (10°C - 32°C), 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.

## 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](http://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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