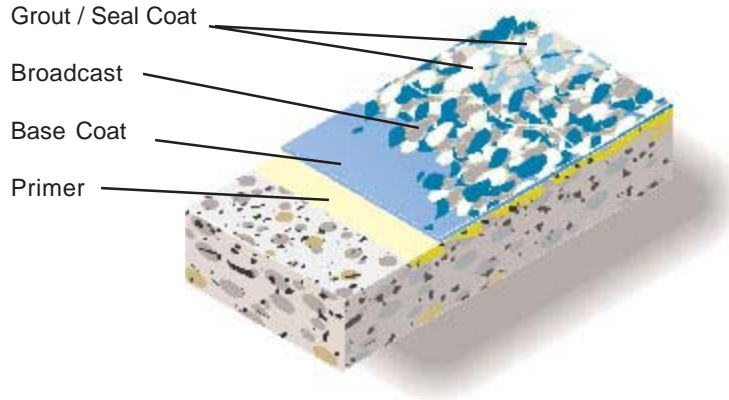




Decorative Mosaic Epoxy Coating System

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 innovation base chemistry also provides tough chemical resistant, colorfast protection.



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 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 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.

Application Information

Material	Mix Ratio	Theoretical Coverage Per Coat Concrete	Packaging
Primer 3579	2:1	200-300 sq. ft. / gal	3 or 15 gals
Base Coat 3745 6750/6755	2:1 Broadcast to excess	200-300 sq. ft. / gal 100-200 lbs. / 1000 sq. ft.	15 gals 25 lbs
Grout 3745	2:1	160-250 sq. ft. / gal	15 gals
Seal Coat(s) 4638	2:1	300-500 sq. ft. / gal	3 or 15 gals

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

3745 Self-Leveling Epoxy
4685 POLYE-COTE Urethane

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 3745A (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 3745A (resin) to 1 part 3745B (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 3745 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 3745A (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 3745A (resin) to 1 part 3745B (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 3745 using a squeegee or trowel and back roll with a 1/40" 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

1. Premix 4638A (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 4638A (resin) to 1 part 4638B (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 4638 using a 1/4" nap roller at a spread rate of 300-500 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.**

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

3745 Self-Leveling Epoxy
4685 POLYE-COTE Urethane

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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