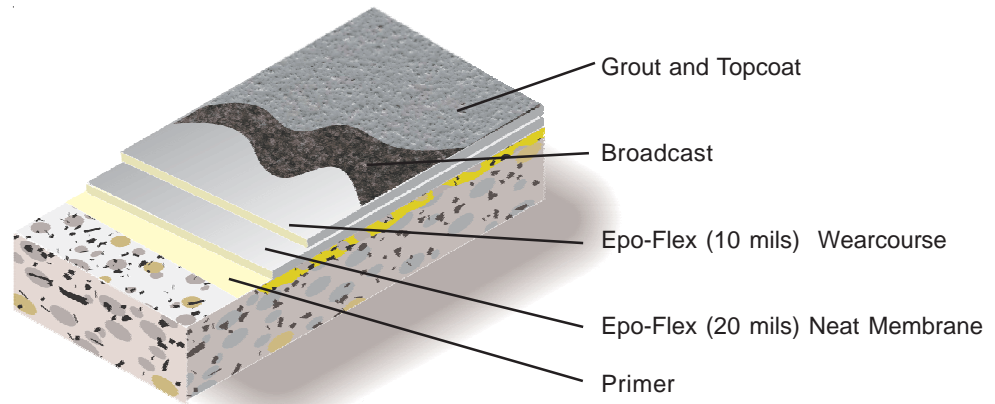




EPO-FLEX® Pedestrian Traffic Topping

General Polymers EPO-FLEX Pedestrian Traffic Topping System combines EPO-FLEX crack isolation with hard aggregate to provide a tough traffic bearing system. Flexibility is achieved without the use of plasticizers or other additives which can separate or migrate as the system ages. This means that the product remains flexible and continues to function for many years.

The use of a hard aggregate provides abrasion resistance and skid inhibition properties. Various topcoats can be specified to provide protection against water, oils, chemicals and ultraviolet light.



Advantages

- Bridges hairline cracks, thereby aiding in suppression of cracks reflecting through the system due to substrate movement
- Abrasion Resistant
- Color options
- Slip resistant
- Waterproof
- Chemical and stain resistant
- Does not require priming in many cases

Uses

- Pedestrian walkways, patios, balconies
- Mezzanines, ramps

Typical Physical Properties of 3555

| | |
|--|-------------------------------------|
| VOC (Volatile Organic Content) EPA method 24 SCAQMD Method 304 | Compliant Compliant |
| Hardness, Shore D ASTM D 2240 | 50/40 |
| Tensile Strength ASTM D 412 | 1,700 psi |
| Elongation ASTM D 412 | 80% |
| Adhesion ACI 503R | 350 psi 100% concrete failure |
| Flammability | Self-Extinguishing over concrete |
| Thermal Cycling ASTM C 884 (24 hours, -21°C to 25°C) | No Cracking |

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 EPO-FLEX Pedestrian Traffic Topping 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 60°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 | 250 sq. ft. / gal | 3 or 15 gals |
| Membrane 3555 | 1:1 | 80 sq. ft. / gal | 2 or 10 gals |
| Bonding/Broadcast 3555 | 1:1 | 160 sq. ft. / gal | 2 or 10 gals |
| Dry Silica Sand (30mesh) or Other Hard Aggregate | To Excess | | 100 lbs |
| Grout 3555 | 1:1 | 160 sq. ft. / gal | 2 or 10 gals |
| Seal coat: 4618 | 2:1 | 300-400 sq ft / gal | 3 or 15 gals |

Primer

Mixing and Application - Priming is done to reduce outgassing. Should job conditions dictate, use primer as follows:

1. Premix 3579 A (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 3579 A (resin) to 1 part 3579 B (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. 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.
4. Wait until primer is tacky (usually 30 minutes), 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 overnight.

First Base Coat

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.
3. Immediately pour the mixed material onto the substrate and pull out using a v-notched red rubber squeegee to yield 20 mils WFT. Readings must be taken continuously during application with a wet mil gauge to verify material is being applied at the proper thickness. Allow to cure overnight at 73°F surface temperature. Material cures slower at lower temperatures.

Wearcourse

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.
3. Immediately pour the mixed material onto the substrate and pull out using a v-notched red rubber squeegee to yield 10 mils WFT. Readings must be taken continuously during application with a wet mil gauge to verify material is being applied at the proper thickness. Material cures slower at lower temperatures.

4. Broadcast 5310 Dry Silica San (30 Mesh) or other hard aggregate to excess into wet material so no wet material is visible. Aggregate should be broadcast within one (1) hour of liquid application to ensure they are properly seated.

5. Allow to cure for 24 hours, sweep off excess aggregate with a 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 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.

3. Immediately pour the mixed material onto the substrate and pull out using a v-notched red rubber squeegee to yield 10 mils WFT. Readings must be taken continuously during application with a wet mil gauge to verify material is being applied at the proper thickness. Material cures slower at lower temperatures.

Seal Coat 4618

Mixing and Application

1. Premix 4618A (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 4618A (resin) to 1 part 4618B (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 4618 using a 1/4" nap roller at a spread rate of 300-400 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 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 (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

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