

SYSTEM BULLETIN



CERAMIC CARPET™ #300/325 Kitchen System

Product Description

General Polymers CERAMIC CARPET #300/325 System is a 100% solids, epoxy floor system (3/32" - 1/8") designed for food processing and food preparation areas. This unique formulation is resistant to thermal shock including hot cooking oil and grease. The system also displays excellent chemical resistance to vinegars, sugars, phosphoric acid, and cleaning solutions.

Advantages

- USDA approval
- 100% solids, zero VOC
- Thermal shock resistance
- Seamless, easy to clean surface
- Resistant to hot cooking oil

Uses

- Kitchens
- Food processing
- Food handling
- Bottling plants
- Research laboratories

System Specification

CERAMIC CARPET #300/325 System consists of 3579 Standard Primer / Binder as the primer, 3563 Kitchen Epoxy Resin as the binder, 5900F (Estes) ceramic granules for broadcasting (as option #1), or 3563 Kitchen Epoxy Resin and 5350 Trafficote Filler for slurry, and 5900F (Estes) ceramic granules for broadcasting (as option #2) and 3563 Kitchen Epoxy Resin as the grout and topcoat.

Typical Physical Properties

Color	Pre-Blended Standard Colors, Custom Color Blends Available	
Solids	100%	
VOC (Volatile Organic Content)	-0-	
Cure Time	Dry to Touch	6-7 hours
	Recoat	18-24 hours
	Foot Traffic	24-48 hours
Hardness, Shore D ASTM D 2240	80-85	
Elongation ASTM D 638	5.5%	
Tensile Strength ASTM D 638	4,000 psi	
Compressive Strength ASTM C 579	11,200 psi	
Flexural Strength ASTM C 580	5,100 psi	
Adhesion ACI 503R	350 psi (100% concrete failure)	
Abrasion Resistance ASTM D 4060, CS-17 Wheel, 1,000 cycles	100 mgs lost	
Flammability	Self-extinguishing over concrete	

ASTM C = Mortar System
ASTM D = Resin only

Installation

The following information is to be used as a guideline for the installation of the CERAMIC CARPET #300/325 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 profile equal to CSP3-5. Refer to Form G-1. Consult the Technical Service Department if oil or grease is present.

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 - 70°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 Concrete	Packaging
Primer	3579	2:1	250 sq. ft. / gal	3 or 15 gals
Ceramic Carpet #300				
	3563	2:1	140-145 sq. ft. / gal	3 or 15 gals
1st Broadcast	5900F	To Excess	.4 lbs / sq. ft.	50 lb. bag
	3563	2:1	65-75 sq. ft. / gal	3 or 15 gals
2nd Broadcast	5900F	To Excess	.4 lbs / sq ft	50 lb. bag
Ceramic Carpet #325				
	3563	2:1	60 sq. ft. / gal	3 or 15 gals
	5350 Trafficote Filler		9 lbs / 1.50 gal	100 lbs
Broadcast	5900F	To Excess	.6 lbs / sq. ft.	50 lb. bag
Grout Coat	3563	2:1	100 sq. ft. / gal	3 or 15 gals
Seal Coat(s)	3563	2:1	250 sq. ft. / gal	3 or 15 gals

Primer

Mixing and Application

1. Premix 3579A (resin) and 3579B (hardener) separately, using a low speed drill and Jiffy mixer. Mix for three minutes and until uniform, exercising caution not to introduce air into the material.
2. Add 2 parts 3579A (resin) to 1 part 3579B (hardener) by volume. Mix with low speed drill and Jiffy mixer 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 at a spread rate of 250 sq. ft. per gallon, evenly, with no puddles. Coverage will vary depending upon porosity of the substrate and surface texture.
4. Wait until primer is tacky (minimum 1 hour), before applying the base coat.

First Broadcast Ceramic Carpet #300

Mixing and Application

1. Premix 3563A (resin) and 3563B (hardener) separately, using a low speed drill and Jiffy mixer. Mix for three minutes and until uniform, exercising caution not to whip air into the material.
2. Add 2 parts 3563A (resin) to 1 part 3563B (hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform.
3. Immediately pour the mixed material onto the substrate and pull out using a 1/4" v-notched squeegee and cross roll with a 3/8" nap roller at a spread rate of 140-145 square feet per gallon.
4. Allow material to self-level for 10-15 minutes. Begin evenly seeding the 5900F into wet resin much the same as grass seed is spread. Granules may be spread by hand or mechanical blower but should be broadcast in such a way that the granules falls lightly into resin without causing the resin to move. Continue broadcasting to excess until the floor appears completely dry.
5. Allow to cure (Cure times vary depending on environmental conditions), sweep off excess granules with a clean, stiff bristled broom. Clean granules can be saved for future use. All imperfections such as high spots should be smoothed before the application of the second broadcast.

Second Broadcast

Ceramic Carpet #300

Mixing and Application

1. Premix 3563A (resin) and 3563B (hardener) separately, using a low speed drill and Jiffy mixer. Mix for three minutes and until uniform, exercising caution not to whip air into the material.
2. Add 2 parts 3563A (resin) to 1 part 3563B (hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform.
3. Immediately pour the mixed material onto the substrate and pull out using a 1/4" v-notched squeegee and cross roll with a 3/8" nap roller at a spread rate of 65-75 square feet per gallon.
4. Allow material to self-level for 10-15 minutes. Begin evenly seeding the 5900F into wet resin much the same as grass seed is spread. Granules may be spread by hand or mechanical blower but should be broadcast in such a way that the granules falls lightly into resin without causing the resin to move. Continue broadcasting to excess until the floor appears completely dry.

Slurry Coat Ceramic Carpet #325

Mixing and Application

1. Premix 3563A (resin) and 3563B (hardener) separately, using a low speed drill and Jiffy mixer. Mix for three minutes and until uniform, exercising caution not to whip air into the material.
2. Add 2 parts 3563A (resin) to 1 part 3563B (hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform. Add 9 lbs of 5350 Trafficote filler to 1.5 gallons of mixed epoxy and mix thoroughly using a low speed drill and Jiffy mixer for three minutes and until uniform.
3. Immediately pour the mixed material onto the substrate and pull out using a 1/4" v-notched squeegee and cross roll with a 3/8" nap roller at a spread rate of 60 square feet per gallon.
4. Allow material to self-level 10-15 minutes. Begin evenly seeding the 5900F into wet resin much the same as grass seed is spread. Granules may be spread by hand or mechanical blower but should be broadcast in such a way that the granules falls lightly into resin without causing the resin to move. Continue broadcasting to excess until the floor appears completely dry.

5. Allow to cure (Cure times vary depending on environmental conditions), sweep off excess granules with a stiff bristled broom. Clean granules can be saved for future use.

Grout Coat

Mixing and Application

1. Premix 3563A (resin) and 3563B (hardener) separately, using a low speed drill and Jiffy mixer. Mix for three minutes and until uniform, exercising caution not to introduce air into the material.

2. Add 2 parts 3563A (resin) to 1 part 3563B (hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations. **Take care not to puddle materials and insure even coverage.**

3. Apply 3563 using flat trowel or squeegee and backroll with a 1/4" nap roller at a spread rate of 100 square feet per gallon evenly with no puddles making sure of uniform coverage. Two coats may be required.

4. Allow to cure (Cure times vary depending on environmental conditions).

Top Coat

Mixing and Application

1. Premix 3563A (resin) and 3563B (hardener) separately, using a low speed drill and Jiffy mixer. Mix for three minutes and until uniform, exercising caution not to introduce air into the material.

2. Add 2 parts 3563A (resin) to 1 part 3563B (hardener) by volume. Mix with low speed drill and Jiffy mixer for three minutes and until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations. **Take care not to puddle materials and insure even coverage.**

3. Apply 3563 using flat trowel or v-notched trowel and backroll with a 1/4" nap roller at 250 square foot per gallon evenly with no puddles making sure of uniform coverage.

4. Allow to cure 24 hours minimum before opening to traffic.

Cleanup

Clean up mixing and application equipment immediately after use. Use xylene. Observe all fire and health precautions when handling or storing solvents.

Safety

MSDS (Material Safety Data Sheets) must be read and understood by personnel responsible for supervision and installation of the General Polymers Materials. In particular, PPI (Personal Protection Index) data should be consulted to help insure safe handling. 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 to 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 to 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.

Warranty

The sale of General Polymers Brand products is governed by the Standard Terms and Conditions of Sale. Sherwin-Williams has no knowledge or control concerning buyer's use for the product nor over the quality of the concrete or substrate to which they are applied. Sherwin-Williams assumes no responsibility for any loss or damage resulting from the handling or use of the products by the buyers. Sherwin-Williams makes the following **LIMITED WARRANTY** that its products have been supplied free from manufacturing defects, and will conform to Sherwin-Williams manufacturing standards. Technical data furnished is true and accurate to the best of our knowledge; however, no guarantee of accuracy is given or implied.

SHERWIN-WILLIAMS' LIABILITY SHALL NOT EXCEED REPLACEMENT OF OR RETURN OF THE PURCHASE PRICE FOR THE PRODUCTS WHICH IT MAY SELL WHICH MAY PROVE TO BE DEFECTIVE UNDER NORMAL USE AND SERVICE WITHIN ONE YEAR FROM DATE OF SALE AND WHICH UPON EXAMINATION BY SHERWIN-WILLIAMS SHALL DISCLOSE, TO SHERWIN-WILLIAMS' SATISFACTION, TO BE DEFECTIVE. IN NO EVENT SHALL SHERWIN-WILLIAMS BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, BUYERS LOSS OF MATERIAL OR PROFITS, INCREASED EXPENSE OF OPERATION, BODILY INJURY, LOSS OF USE OF PROPERTY, OR DOWNTIME. SHERWIN-WILLIAMS MAKES NO IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THE BUYER HEREBY EXPRESSLY WAIVES ANY CLAIM TO ADDITIONAL DAMAGES.

This Limited Warranty shall be governed by and construed in accordance with the internal laws of the State of Ohio without regard to the principles of conflicts of laws. Any controversy or claim arising out of or relating to this Limited Warranty or alleged breach thereof, shall be settled by mediation under the Construction Industry Mediation Rules of the American Arbitration Association. If, within thirty (30) days after service of a written demand for mediation, the mediation does not result in settlement of the dispute, then any unresolved controversy or claim arising from or relating to this Limited Warranty or alleged breach thereof shall be settled by arbitration administered by the American Arbitration Association in accordance with its Construction Industry Arbitration Rules and judgment on the award rendered by the arbitrator(s) shall be final and binding on the parties and may be entered in any court having jurisdiction thereof. All such mediation and arbitration shall take place in Cleveland, Ohio. This Limited Warranty supersedes any other warranty or other representation, whether written or oral, hereto made between parties.



WEBSITE: www.generalpolymers.com

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