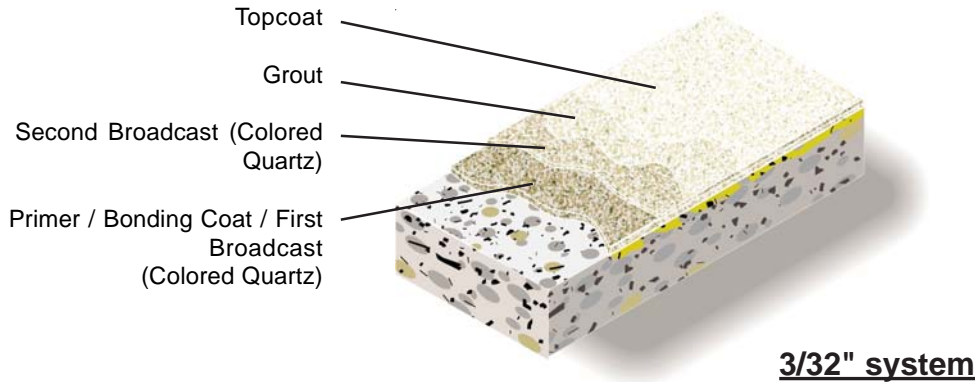




CERAMIC CARPET™ #461 Decorative Broadcast Flooring System

General Polymers **CERAMIC CARPET #461 Decorative Broadcast Flooring System** combines the historical advantages of epoxy quartz flooring with integral protection against loss of bond due to moisture vapor issues for slabs on grade.



Advantages

- Withstands vapor emissions
- Low odor
- Aesthetically pleasing appearance
- Limitless color blend options
- Semi-Gloss finish
- Durable, wear and slip resistant
- Chemical and stain resistant
- Fiberglass scrim optional for maximum tensile strength and crack isolation
- Acceptable for use in USDA inspected facilities
- Available with an antimicrobial agent

Uses

- Floors suspected of vapor emission issues
- Light Commercial kitchens (areas where temperature will not exceed 120°F in service)
- Animal Care
- Clean rooms
- Pharmaceuticals
- Locker and restrooms
- Packaging and storage areas
- Laboratories

Limitations

- Base coat must be installed at a minimum of 3/32" minimum

Typical Physical Properties

Color	Pre-Blended Standard Colors Custom Color Blends Available
Pot Life, gallon mass	1-2 hours
Cure Times	Dry to Touch 10-12 hours Recoat 12 hours Light Foot Traffic 24 hours
Hardness @ 14 days, Shore D	70/65
ASTM D 2240	
Compressive Strength	5,500 psi
ASTM C 579	
Tensile Strength	
ASTM C 307	1,200 psi
Abrasion Resistance	70-90 mgs lost
ASTM D 4060, CS-17 Wheel, 1,000 cycles	
Flexural Strength	
ASTM C 580	1,200 psi
ASTM D 790	10,000 psi
Adhesion	350 psi
ACI 503R	100% concrete failure
Flammability	Self-Extinguishing over concrete
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 **CERAMIC CARPET #461 Decorative Flooring System**. If additional thickness is required, 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 of a CSP 3 to 4. 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. **NOTE: Pre-filling may be accomplished with 3460 and 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 3/32"

Material	Mix Ratio	Theoretical Coverage	Packaging
Primer / Bonding / 1st Broadcast			
3461 plus 10% potable water by volume	1:2	100-125 sq. ft. / gal (12-15 mils WFT)	3 or 15 gals
5900F	To Excess	0.4 lbs / sq. ft.	50 lb. bag
2nd broadcast			
3461 plus 10% potable water by volume	1:2	100-125 sq. ft. / gal	3 or 15 gals
5900F	To Excess	0.4 lbs / sq. ft.	50 lb. bag
Grout			
3461 plus 10% potable water by volume	1:2	100-125 sq. ft. / gal	3 or 15 gals
Topcoat			
3461 plus 20% potable water by volume	1:2	160-200 sq. ft. / gal	3 or 15 gals

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

4408 WB Polyurethane (2 coats @ 2-4 mils WFT each)

Primer / Bonding / First Broadcast
Mixing and Application

1. Add 1 part 3461A (resin) to 2 parts 3461B (hardener) Mix with low speed drill and Jiffy blade until uniform for one minute then add 10% potable water by volume, continue to mix for 2 minutes. To insure proper system cure and performance, strictly follow mix ratio recommendations.

2. 3461 may be applied via spray, roller or brush. Apply at 100-125 square feet per gallon to yield 12-15 mils WFT evenly with no puddles making sure of uniform coverage. Coverage will vary depending upon porosity of the substrate and surface texture.

3. Allow material to self-level 5 minutes. Begin evenly seeding the 5900F into wet resin much the same as grass seed is spread (about 400 lbs. per 1,000 sq. ft.). 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.

4. 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 coat.

Second Broadcast
Mixing and Application

1. Add 1 part 3461A (resin) to 2 parts 3461B (hardener) Mix with low speed drill and Jiffy blade until uniform for one minute then add 10% potable water by volume, continue to mix for 2 minutes. To insure proper system cure and performance, strictly follow mix ratio recommendations.

2. 3461 may be applied via spray, roller or brush. Apply at 100-125 square feet per gallon evenly with no puddles making sure of uniform coverage. Coverage will vary depending upon porosity of the substrate and surface texture.

3. Allow material to self-level 5 minutes. Begin evenly seeding the 5900F into wet resin much the same as grass seed is spread (about 400 lbs. per 1,000 sq. ft.). 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.

4. 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.

Grout
Mixing and Application

1. Add 1 part 3461A (resin) to 2 parts 3461B (hardener) Mix with low speed drill and Jiffy blade until uniform for one minute then add 10% potable water by volume, continue to mix for 2 minutes. To insure proper system cure and performance, strictly follow mix ratio recommendations.

2. Immediately pour the mixed material onto the substrate and pull out using a squeegee and cross roll with a 3/8" nap roller at a spread rate of 125 square feet per gallon.

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

Topcoat
Mixing and Application

1. Add 1 part 3461A (resin) to 2 parts 3461B (hardener) Mix with low speed drill and Jiffy blade until uniform for one minute then add 20% potable water by volume, continue to mix for 2 minutes. To insure proper system cure and performance, strictly follow mix ratio recommendations.

2. Immediately pour the mixed material onto the substrate and pull out using a squeegee and cross roll with a 3/8" nap roller at a spread rate of 160-200 square feet per gallon.

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

NOTE: When grouting and topcoating cove base DO NOT add water to mix.

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

4408 WB Polyurethane

Cove Base
Mixing and Application

1. **Pint ---** Add 1 pint 3461A (resin) to 2 pints 3461B (hardener) Mix with low speed drill and Jiffy blade until uniform for two minutes. To insure proper system cure and performance, strictly follow mix ratio recommendations.

1a. **Quart ---** Add 1 quart 3461A (resin) to 2 quarts 3461B (hardener) Mix with low speed drill and Jiffy blade until uniform for two minutes. To insure proper system cure and performance, strictly follow mix ratio recommendations.

2. **Pint----** Add 17 lbs of 5900F color quartz aggregate to liquid and mix until completely wetted out.

2a. **Quart----** Add 68 lbs of 5900F color quartz aggregate to liquid and mix until completely wetted out.

3. Pour mixed material on substrate begin trowelling cove base. This mix material will yield 20-24 lineal feet with 4" inch cove base.

4. Allow to cure 8-10 hours before sanding and finishing.

NOTE: DO NOT add water to the cove base mixture. Do not spray water on surface to assist in smoothing or lubricating only use water on the trowel and not on the material.

Cleanup

Clean up mixing and application equipment immediately after use using soap and water.

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.

