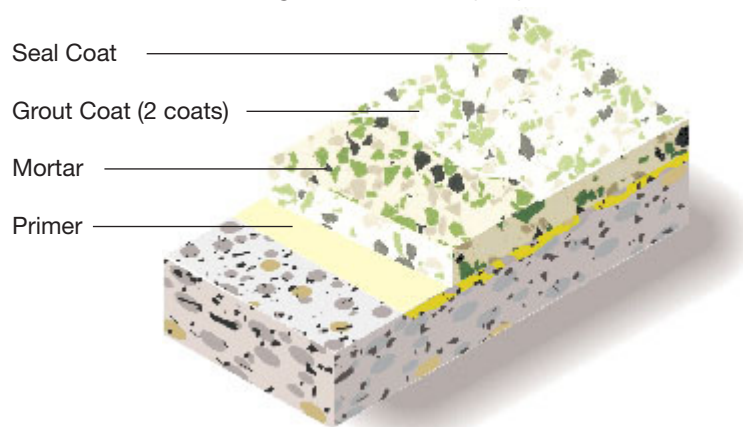




# CERAM® #100 Decorative Troweled Mortar

**General Polymers CERAM #100 DECORATIVE TROWELED MORTAR System** is a high build protective resurfacing system utilizing a clear high solids epoxy binder resin, multicolored aggregate and a chemical resistant grout and seal coats. CERAM #100 DECORATIVE TROWELED MORTAR System provides an aesthetically pleasing, durable finish with the strength of industrial epoxy mortars.



## Advantages

- Aesthetically pleasing finish
- High aggregate load accommodates slope to drain on irregular substrates
- Seamless and impervious
- Wide range of colors available

## Uses

- Commercial kitchens, locker rooms, showers
- Healthcare and pharmaceutical facilities
- Laboratories, clean rooms
- Food and beverage facilities
- Animal research

## Typical Physical Properties

Color	Standard Pre-Blended Colors Custom color matching available upon request
Hardness, @ 24 hours, Shore D ASTM D 2240	85/65
Compressive Strength ASTM C 579	11,000 psi
Tensile Strength ASTM C 307	2,500 psi
Flexural Strength ASTM C 580	4,500 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

## 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 **CERAM #100 DECORATIVE TROWELED MORTAR 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 4-6

VOC MIXED		MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<50 g/L	<b>Primer</b>	3579	2:1	250 sq. ft./gal	3 or 15 gals
<50 g/L 0	<b>Mortar</b>	3561 5900C	4:1	48-50 sq. ft. / 1¼ gal @ 3/16" 72lbs / 1¼ gal	1.25 - 250 gals 50 lbs
<100 g/L	<b>Grout</b>	3746 2 coats	2:1	100 sq. ft. / gal	3 or 15 gals
<50 g/L	<b>Seal Coat</b>	4410/4411	4:1	400-800 sq. ft./gal	1.25 or 5 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 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. Apply via brush, roller, or spray at a rate of 250 square feet per gallon (6 WFT mils). Wait for primer to become tacky (usually 1 hour minimum). This prevents primer from bleeding through and sliding during mortar placement. If primer is to be allowed to cure for more than 4 hours, broadcast lightly but uniformly with clean, dry 40-60 mesh aggregate.

## Mortar

### Mixing and Application

**1. Premix 3561 A (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to whip air into the material.**

**2. Add 4 parts 3561A (4 quarts resin) to 1 part 3561B (1 quart hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. Place mixed 3561 into mortar mixer. Slowly add 72 pounds of 5900C quartz aggregate. Mix until aggregate is thoroughly 'wet out'. Immediately dump mortar onto substrate and screed to desired thickness.**

**3. Compact and smooth the mortar using a hand or power trowel. Allow to cure (Cure times vary depending on environmental conditions).**

## 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 whip 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.

3. Apply 3746 using a spring steel trowel or red rubber squeegee and back roll with a 3/8" nap roller at a spread rate of 100 sq. ft. per gallon.

4. Allow to cure. Repeat Steps 1-3.

## Seal Coat

### Mixing and Application

1. Premix 4410/4411A (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 4 parts 4410/4411A (resin) to 1 part 4410/4411B (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 4410/4411 using a 1/4" nap roller at a spread rate of 400-800 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.

## Application Equipment

### Brush / Roller

Use 1/4" phenolic core rollers and professional quality, medium stiff natural bristle brushes.

### Trowel

Use steel finishing trowel or epoxy mortar power trowel such as manufactured by Superior.

### 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) 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

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Consult [www.generalpolymers.com](http://www.generalpolymers.com) to obtain the most recent Product Data information and Application instructions.

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