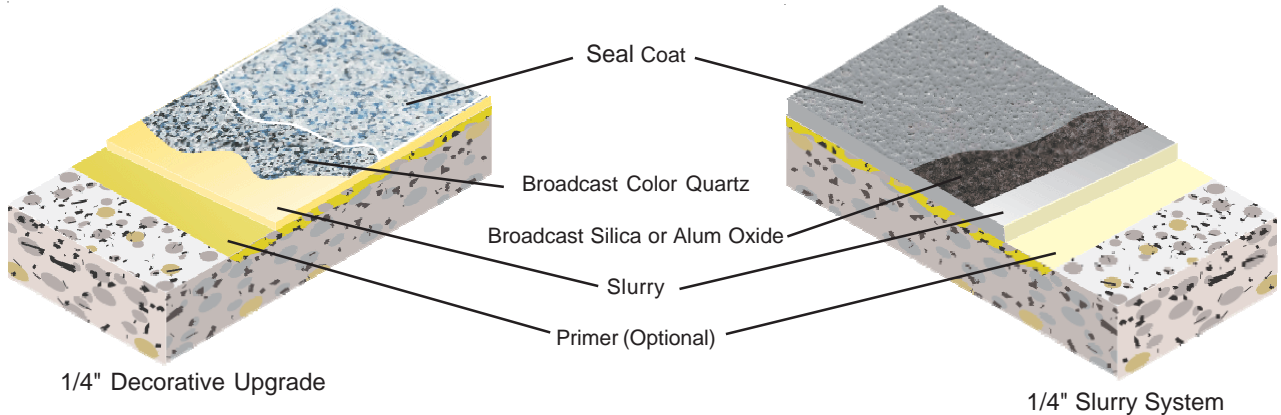




# FasTop™ S Urethane Slurry System

General Polymers **FasTop S URETHANE SLURRY SYSTEM** is a low odor, self-leveling slurry to be applied at 3/16" thickness and broadcast to yield a 1/4" - 3/8" finished system. **FasTop S** can be applied with a pin rake, screed rake or flat trowel. It is designed to protect concrete, wood and steel substrates from thermal shock, impact, corrosion, mild chemical attack and abrasion. A decorative quartz broadcast may be specified as **FasTop S-U1** an upgrade to the standard system.



## Advantages

- Can be applied to "green" concrete
- Rapid cure and hardness development
- Low odor, water based
- Hot cooking oil and steam resistance
- Low temperature cure
- Will not lose bond due to thermal shock
- Impact resistant
- Moisture insensitive
- Maintains bond with vapor emissions up to 15 lbs.
- Acceptable for use in USDA inspected facilities
- Resistant to:

| <u>28 Day Exposure @ 72°F</u> | <u>Result</u>     |
|-------------------------------|-------------------|
|                               | NE= No Effect     |
| Alcohol                       | NE                |
| Ethylene Glycol               | NE                |
| Fats, Oils & Sugars           | NE                |
| Gasoline, Diesel & Kerosine   | NE                |
| Hydrochloric Acid (<35%)      | NE                |
| Lactic Acid (Milk)            | NE                |
| Mineral Oils                  | NE                |
| Most Organic Solvents         | NE                |
| Muriatic Acid                 | NE                |
| Nitric Acid (<10%)            | NE                |
| Nitric Acid (<30%)            | Slight Softening  |
| PM Acetate                    | NE                |
| Phosphoric Acid (<50%)        | NE                |
| Potassium Hydroxide (<50%)    | NE                |
| Sodium Hydroxide (<50%)       | NE                |
| Sulfuric Acid (<50%)          | Slight Gloss Loss |
| Water                         | NE                |
| Xylene                        | NE                |

## Uses

- Food processing kitchens
- Commercial kitchens
- Food and Beverage plants
- Sugar processing plants
- Meat and Poultry plants
- Restrooms and concession stands

## Typical Physical Properties

|  |  |             |
|--|--|-------------|
| Color                                  | Red, Light Gray or Dark Gray               |             |
| Decorative Upgrade:                    | Selected Ceramic Carpet Blends             |             |
| Cure Time                              | Recoat                                     | 4-5 hours   |
|  | Foot Traffic                               | 6-8 hours   |
|  | Full Service                               | 10-12 hours |
| Abrasion Resistance                    | 20-30 mgs lost                             |             |
| ASTM D 4060, CS-17 Wheel, 1,000 cycles |  |             |
| Hardness, Shore D                      | 75   |             |
| ASTM D 2240                            |  |             |
| Tensile Strength                       | 550-600 psi                                |             |
| ASTM C 307                             |  |             |
| Compressive Strength                   | 5,000 psi                                  |             |
| ASTM C 579                             |  |             |
| Flexural Strength                      | 3,700 psi                                  |             |
| ASTM C 580                             |  |             |
| Adhesion                               | 350 psi                                    |             |
| ACI 503R                               | 100% concrete failure                      |             |
| Impact Resistance                      | Withstands 16 ft lbs                       |             |
| MIL-D-3134, Sec.4.7.3                  | without cracking, delamination or chipping |             |
| Flammability                           | Self-Extinguishing over concrete           |             |
| Coefficient of Friction                | >0.80                                      |             |
| ASTM D 2047                            |  |             |
| Service Temperature at 3/16"           | -50°F - 300°F                              |             |
| Shrinkage                              | Nil  |             |
| Water Absorption                       | Nil  |             |

ASTM C = Mortar System  
ASTM D = Resin only

## Installation

The following information is to be used as a guideline for the installation of the **FasTop S URETHANE SLURRY 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 4-6. 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.

## Limitations

The substrate must be structurally sound, cleaned of any foreign matter that will inhibit adhesion.

Do not apply in temperatures below 40° F or above 85° F or when relative humidity is greater than 85%. If substrate is not concrete, wood or metal as described in Surface Preparation (Form G-1) then do not apply. Call Technical Service Department for recommendation.

**When installing FasTop S, if encountering concrete outgassing, please discontinue installation and apply 3477 Epoxy Water Emulsion Primer / Sealer. Allow to dry until tack free and proceed with the FasTop S installation.**

- Do not featheredge.
- Do not mix partial units.
- Do not hand mix. Do not let mixed material sit in a bucket, even a 2-3 minute delay in pouring will reduce working time.
- Do not apply to cracked or unsound substrates.
- Do not install outside, call Technical Service Department.

Full chemical resistance is achieved after a seven (7) day cure. Consult the Technical Service Department for specific chemical resistance.

### Application Information @ 1/4"

| Material   | Mix Ratio | Theoretical Coverage Per Coat      | Packaging                      |
|--|-----------|------------------------------------|--------------------------------|
| <b>Cove Base</b>                                     |           |                                    |                                |
| 4040   | 2:1       | 300 sq. ft. / gal                  | 3 or 15 gals                   |
| 4060   | 1 unit    | 15-20 lin. ft. @ 6" cove 1" radius | Short Filled Gallon Containers |
| 5055   |           | 30 lbs                             | 30 lbs                         |
| <b>Optional Primer for outgassing</b>                |           |                                    |                                |
| 3477   | 2:1       | 250 sq. ft. / gal                  | 3 or 15 gals                   |
| <b>Slurry</b>  |           |                                    |                                |
| 4050   | One Unit  | 25-30 sq. ft. /unit @ 1/4"         | 2 gals (Short Filled)          |
| 5050   | One Unit  | 16-20 sq. ft. / unit @ 3/8"        | 44 lbs /bag                    |
| Broadcast (Standard)                                 |           |                                    |                                |
| 5310 Dry Silica Sand For Seeding (30 Mesh or larger) |           | 400 lbs / 1,000 sq. ft.            | 100 lbs                        |
| Optional Broadcast (Upgrade)                         |           |                                    |                                |
| 5900F Ceramic Blend For Seeding                      |           | 400 lbs / 1,000 sq. ft.            | 50 lbs                         |
| <b>Optional Seal Coat(s):</b>                        |           |                                    |                                |
| 3744   | 2:1       | 100 sq. ft. / gal                  | 3 or 15 gals                   |

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

4844 PAce-Cote

3462 AquArmor Gloss Topcoat

## Cove Base

Cove base should be installed prior to the floor. Tape out cove with duct tape or a good quality masking tape. Terazzo strips will also work.

**Priming:** Prime wall with 4040 FasTop Urethane Primer. Primer only has a 10 minute pot life. Be sure to prime entire surface and about halfway onto tape. Prime only what cove base that can be installed within 30 minutes. Begin installing cove base right away – No need to wait for primer to tack up.

**Mixing:** **Do not mix partial units**, the fine aggregate and pigment can and will separate. A drill and a paddle work the best, but a KOL mixer works well also. Mix pre-measured unit of 4060A for one minute. Add 4060B pre-measured unit and mix. Slowly add 5055 aggregate and mix until thoroughly wet out. Immediately pour mixed material out of bucket, in a bead, next to the wall. Rough apply cove mortar using a trowel. Do not worry about trowel marks at this time; just get all the mixed material applied to the wall. Material will need to be finished within approximately 20 minutes depending on temperature. Placing a halogen light next to cove base will cast shadows and assist on finishing the cove base with minimal waves and/or trowel marks. Use a minimum of a 3/4" radius cove trowel and finish cove base. Any smaller may result in a loss of the radius once the floor is tied in. Lightly misting cove trowel with water, as a trowel lube, works well - **Do not use isopropyl alcohol**. Carefully remove tape and finish rough edges. Install floor once cove is hard to the touch, about 2 ½ to 3 hours.

**Required Tools:** Drill, proper mixing paddle, 3" x 8" trowel works best to apply, margin trowel, and a radius cove trowel – Minimum of 3/4" but 1" is preferred.

### **Primer Optional for outgassing** **Mixing and Application**

1. Premix 3477A (resin) and 3477B (hardener) separately, 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 2 parts 3477A (resin) to 1 part 3477B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. **DO NOT** mix more material than can be used within 4 hours. Apply material with a short nap roller at a spread rate of 250 sq. ft. per gallon.

**DO NOT ALLOW TO PUDDLE.** Any uneven or textured surfaces will require more material than an even surface.

## Slurry Coat

### **Mixing and Application**

**DO NOT PREMIX 4050 PART B HARDENER. OVER EXPOSURE TO AIR EFFECTS PHYSICAL PROPERTIES**

1. Add 4050A (resin) to 4050B (hardener) and mix with low speed drill and Jiffy mixer until uniform.

2. Pour 44 lbs. 5050 aggregate and blend materials until no lumps remain. Immediately pour mixed material onto the substrate and pull out using a pin rake, screed rake or flat trowel. Place all material within 15 minutes. Back roll with a loop roller to assist leveling. Allow material to self-level (2-5 minutes).

3. Broadcast Silica Sand (30 Mesh or larger) to saturation (about 400# per 1000 square feet). As an upgrade 5900F Ceramic Granule Blends may be used for broadcast for a more decorative finish.

3. Allow to cure for a minimum of 6-8 hours, sweep off excess sand with a clean, stiff bristled broom. Clean sand can be saved for future use. All imperfections such as high spots should be smoothed before the application of the seal coat.

NOTE: Dry Silica Sand distribution is critical to the success of the application. The floor's finished appearance depends on the manner in which the sand has been applied. In grass seed like fashion, allow the sand to fall after being thrown upward and out. **DO NOT THROW DOWNWARD AT A SHARP ANGLE USING FORCE.**

**NOTE: At substrate temperature less than 50°F, the application will be adversely affected.**

### **Seal Coat (Optional)-**

#### **Mixing and Application**

**(When using decorative quartz broadcast, use clear seal coat options according to the following instructions.)**

1. Premix 3744A (resin) using a low speed drill and Jiffy mixer. Mix for one minutes and until uniform, exercising caution not to whip air into the material.

2. Add 2 parts 3744A (resin) to 1 part 3744B (hardener) by volume. Mix with low speed drill and Jiffy mixer until uniform.

3. Apply 3744 to floor in thin bands and pull out using a red rubber squeegee at a spread rate of 100 sq. ft. per gallon to yield 16 mils WFT. Allow material to cure overnight.

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

4844 PAce-Cote

3462 AquArmor Gloss Topcoat

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

## Warranty

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