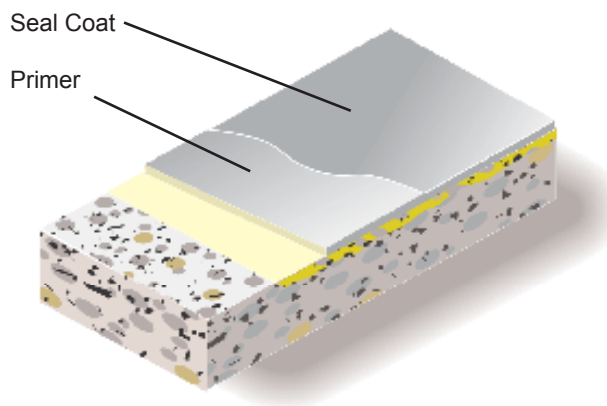


# HardTop Coating System

**General Polymers HardTop Coating System** combines a unique aliphatic polyurethane resin and a durable powdered aggregate to provide an abrasion resistant seal coat that extends the life expectancy of a standard urethane topcoat. HardTop is specially formulated to resist wear patterns in high traffic areas, while maintaining chemical and color (UV) stability.



## Advantages

- UV stable
- High solids
- Acceptable for use in USDA inspected facilities
- Excellent chemical resistance
- Abrasion resistant
- High gloss
- Resistant to Betadine staining
- Scuff resistant

## Uses

- Healthcare facilities
- Animal holding
- Laboratories
- Clean rooms
- Rest rooms
- Change rooms
- Corridors
- Production floors

## Limitations

- Do NOT premix Part B hardener
- Humidity must not exceed 80%

## Typical Physical Properties

Color	Standard Colors
Solids, by volume	94% ±2%
Cure Time	Dry to touch 12 hours
	Recoat 15 hours
	Foot Traffic 18-24 hours
	Wheeled Traffic 2 days minimum
	Full Cure 3 days
Abrasion Resistance	30 mgs lost
ASTM D 4060, CS-17 Wheel, 1,000 cycles	
Adhesion	350 psi
ACI 503R	100% concrete failure
Elongation	25.4%
ASTM D 638	
Tensile Strength	
ASTM D 638	
	3,217 psi

ASTM D = Resin only

## Installation

The following information is to be used as a guideline for the installation of the **HardTop Coating 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 1-3. Refer to Form G-1. Consult the Technical Service Department if oil or grease is present.

### *Temperature*

Throughout the application process, substrate temperature should be 40°F minimum. 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.

## Application Information — Surface Prep Profile CSP 1-3

VOC MIXED		MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<50 g/L	Primer	3579	2:1	200-250 sq ft / gal	3 or 15 gals
<50 g/L 0	Seal Coat Pigmented	4687 5240	2:1 4 lbs / gal	500 sq ft / gal (minimum)	3 or 15 gals 50 lb bags

Different seal coat(s) — Consult individual Technical Data Sheets for mixing and application instructions.  
4686 Ultra High Solids Aliphatic Urethane (Clear) Mixing ratio is 1:1.

## Primer

### Mixing and Application

1. Premix 3579A (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 3579A (resin) to 1 part 3579B (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 6-8 mils, evenly, with no puddles. Coverage will vary depending upon porosity of the substrate and surface texture.
4. Allow to cure a minimum of 8 hours.

## Seal Coat

### Mixing and Application

1. Premix 4687A (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 4687A (resin) to 1 part 4687B (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. While mixing add 2-4 lbs per gallon 5240 Part C and mix for additional 30 seconds. Pour into an application tray.
3. Apply 4687 using a 1/4" nap roller at a spread rate of 500 square feet per gallon minimum, evenly, with no puddles making sure of uniform coverage. Take care not to puddle materials and insure even coverage.
4. Apply dipping and rolling out of the application tray as evenly as possible while strictly adhering to the coverage rate. Using a 9" roller will help maintain a consistent application thickness over normal waves and inconsistencies in the concrete.
5. Cross-roll the material in multiple directions to level out any roller marks until appearance is satisfactory.
6. Remix the material (using the roller) every time roller is dipped in the applicator tray to prevent settling of the 5240 Part C.
7. A second application may be applied within 15-24 hours.

Note: Applying material thicker than the published coverage will result in a higher gloss and loss of texture.

## 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.

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

## Warranty

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