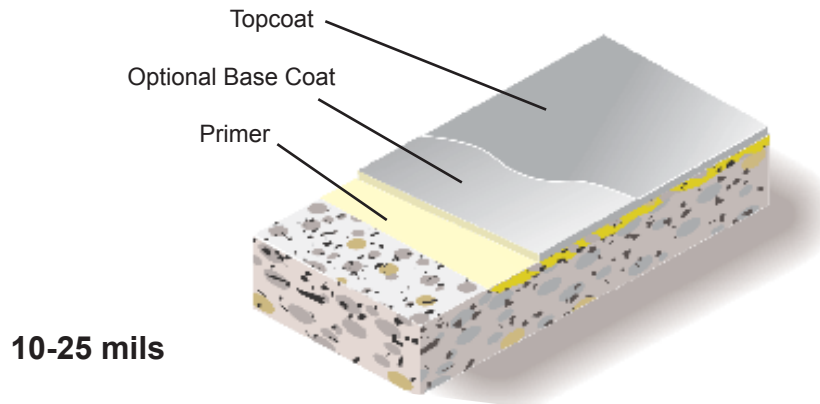




# HardTop WB Coating System

**General Polymers HardTop WB Coating System** combines a water-based epoxy primer/basecoat and water-based aliphatic polyurethane topcoat with a durable powdered aggregate to provide an abrasion resistant floor coating. This versatile system can be applied at 10-25 mils and wears 8-10 times better than comparable epoxy coatings. HardTop WB is specially formulated to resist wear patterns in high traffic areas, while maintaining chemical and color (UV) stability.



## Advantages

- Breathable
- Excellent adhesion to most substrates
- Water-based
- Up to 10 times the life expectancy of typical topcoats
- Chemical and stain resistant
- Resists wear patterns
- Gloss or Satin finish
- Can be applied to damp concrete

## Uses

- Heavy traffic aisles
- Warehouses
- Manufacturing facilities
- Corridors or traffic corridors

## Limitations

- Protect materials from freezing.

## Typical Physical Properties

Color	Standard colors Can be tinted at local SW store
Solids, by volume	52% $\pm$ 2%, depending on color or base
Pot Life, pint mass	1.5 hours
Coverage 4 mils WFT	370 sq. ft. / gal
Cure Time	Dry to Touch 4 hours Recoat min 4, max 18 hours Light Foot Traffic 24 hours Wheeled Traffic 48 hours
Abrasion Resistance ASTM D 4060, Type Wheel, CS17 1,000 Cycles	60 mgs lost
Slip Resistance ASTM F 1679-04	Dry 0.7 Wet 0.6

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 **HardTop WB 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 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. NOTE: 3460 and filler may be used to fill voids and any other surface imperfections. For recommendations, consult the Technical Service Department.

## Temperature

Throughout the application process, substrate temperature should be 50°F - 85°F. Substrate temperature must be at least 5°F above the dew point. Cure times will be extended in conditions of high humidity and poor ventilation due to low evaporation rate. 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 – Surface Prep Profile CSP 1-3

VOC MIXED		MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<50 g/L	<b>Primer</b>	3460	1:4	200-250 sq. ft./gal	1.25 or 5 gals
<50 g/L	<b>Base Coat (Optional)</b>	3460	1:4	100-200 sq. ft./gal	1.25 or 5 gals
<50 g/L <50 g/L	<b>Topcoat Gloss Finish Satin Finish</b>	4410 4411	4:1 4:1	400 sq. ft./gal	4 or 20 gals
0		5240	8-12 lbs / 4 gal unit		50 lbs. bag

## Primer

### Mixing and Application

NOTE: For improved hiding and finished color consistency, 3460 should be tinted at a Sherwin Williams store to a color similar to the 4410/4411 Topcoat.

1. Premix 3460A (resin) and 3460B (hardener) 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 1 part 3460A (resin) to 4 parts 3460B (hardener), mix with low speed drill and Jiffy blade for three minutes and until uniform. Add 20% water and mix an additional 2-3 minutes until uniform. To insure proper system cure and performance, strictly follow mix ratio instructions.
3. 3460 may be applied via spray, roller or brush. Apply using a 1/4" nap non-shedding, enamel roller cover at a spread rate of 200-250 sq. ft. per gallon to yield 6-8 WFT mils evenly with no runs.
4. Allow to cure overnight.

## Optional Base Coat

### Mixing and Application

1. Premix 3460A (resin) and 3460B (hardener) 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 1 quart 3460A (resin) to 1 gallon 3460B (hardener), 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 instructions.
3. 3460 may be applied via roller or brush or squeegee. Apply at a spread rate of 100-200 sq. ft. per gallon to desired thickness.
4. Allow to cure overnight.

## Topcoat

### Mixing and Application

1. Premix 4410A/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 gallons 4410A/4411A (resin) to 1 gallon 4410B/4411B (hardener), 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 instructions. While mixing add 8-12 lbs 5240 Part C and mix for an additional 30 seconds. Pour into application tray.
3. 4410/4411 may be applied via roller or brush. Apply using a 1/4" nap non-shedding, enamel roller cover at a spread rate of 370 sq. ft. per gallon to yield 4 WFT mils evenly with no runs, by dipping and rolling out of the application tray as evenly as possible. Using a 9 inch roller will help maintain a consistent application thickness over normal waves and inconsistencies in the concrete. Can dilute up to 10% with potable water to aid flow.

4. Cross-roll the material in multiple directions to level out any roller marks until appearance is satisfactory.

5. Remix the material (using the roller) every time roller is

Note: Applying this material thicker than the published coverage rate can affect the finish.

6. Allow 48 hours to cure for water exposure and 7 days for chemical exposure.

## 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. 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.

## 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

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.



**To learn more, visit us at**

[www.sherwin-williams.com/protective](http://www.sherwin-williams.com/protective)  
or call 1-800-524-5979  
to have a representative contact you.