



Protective & Marine Coatings

GENERAL POLYMERS® 3460 AQUARMOR™ WBE WATER-BASED EPOXY

PART A
PART B

GP3460
GP3460B01

SERIES
HARDENER

Revised September 23, 2014

PRODUCT INFORMATION

PRODUCT DESCRIPTION

GENERAL POLYMERS 3460 AQUARMOR WBE is a unique, high solids water-based epoxy used as a primer, binder resin, and topcoat for the AquArmor floor systems.

ADVANTAGES

- Can be applied to green concrete
- Acceptable for use in USDA inspected facilities
- Excellent adhesion to concrete or wood
- Breathable
- Fair chemical resistance
- Water reducible
- Long working time

TYPICAL USES

GENERAL POLYMERS 3460 AQUARMOR WBE is used as a primer, binder resin, and under certain conditions can be used as a topcoat.

LIMITATIONS

- Substrate must be structurally sound, dry and free of bond inhibiting contaminants.
- During installation and initial cure cycle substrate and ambient air temperature must be at a minimum of 50°F (10°C) (for lower temperature installation contact the Technical Service Department).
- Strictly adhere to published coverage rates. Never exceed application of more than 30 mils.
- DO NOT install in immersion environments.
- Cure times will be extended in conditions of high humidity and poor ventilation due to low evaporation rate.
- When high humidity (>75% relative humidity) is anticipated, provide additional air movement and/or dehumidification.
- In uncontrolled climate environments, DO NOT INSTALL when rain is imminent or humidity is above 90%.
- Will require more aggressive cleaning procedures.

SURFACE PREPARATION

Proper inspection and preparation of the substrate to receive resinous material is critical. Read and follow the "Instructions for Concrete Surface Preparation" (Form G-1) for complete details.

PRODUCT CHARACTERISTICS

Color:	Off White, Medium Gray (Can be tinted)
Mix Ratio:	1:4 Reduction with Potable Water from 10% - 20%
Viscosity:	2,200 cps
Volume Solids:	55% ± 2%, mixed
Weight Solids:	68% ± 2%, mixed
VOC (EPA Method 24):	Unreduced: <50 g/L mixed; 0.41 lb/gal

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns):	5.0 (125)	30.0 (750)
~Coverage sq ft/gal (m²/L):	300 (7.6)	53 (1.3)

Drying Schedule @ 8 mils (200 microns) wet:

	@ 73°F (23°C)	
To touch:	2-4 hours	
To recoat:	2-10 hours	depends on thickness
Light traffic:	18-24 hours minimum	
<i>If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.</i>		
Pot Life:	gallon mass	60 minutes @ 73°F (23°C)

Shelf Life:	Part A: 36 months, unopened Part B: 12 months, unopened Store indoors at 50°F (10°C) to 90°F (32°C).
Flash Point:	>256°F (>124°C), ASTM D 93, mixed

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
System #1 Surface Burning 3460/3460/3462	ASTM E 84/NFPA255 Meets NFPA 101 Class A	Flame Spread 25 Smoke Index 55 @ 30-35 DFT (750-875 microns)
System #2 Surface Burning AquArmor S(3460/3460 AIOx/3462+5240)	ASTM E 84/NFPA255 Meets NFPA 101 Class A	Flame Spread 20 Smoke Index 50 @ 40-45 DFT (1000-1125 microns)
System #3 Surface Burning AquArmor S(3460/3460 AIOx/4408+5240)	ASTM E 84/NFPA255 Meets NFPA 101 Class A	Flame Spread 15 Smoke Index 30 @ 40-45 DFT (1000-1125 microns)
Abrasion Resistance 3460 w/120 mesh brown AIOx	ASTM D 4060 CS17 wheel, 1000 cycles	25 mg lost



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APPLICATION

• APPLICATION INSTRUCTIONS as a Primer

1. Premix 3460 Part A (resin) and 3460 Part B (hardener) separately, using a low speed drill and Jiffy blade. Mix until uniform, exercising caution to not entrain air into the product.

2. Add 1 part 3460A (resin) to 4 parts 3460B (hardener) by volume. Mix with low speed drill and Jiffy blade until uniform (typically 90 seconds), material will thicken as you mix. To insure proper cure and performance, strictly follow the mix ratio. **DO NOT REDUCE PRODUCT UNTIL BOTH COMPONENTS HAVE BEEN MIXED TOGETHER FOR 90 SECONDS.** Can reduce 10-20% with potable water.

3. Apply 3460 using a flat or notched squeegee coat and backroll with a high quality 3/8" nap roller. Apply at a spread rate evenly with no puddles, making sure of uniform coverage. Cross hatch backrolling is recommended for uniformity.

4. Allow to cure 2-10 hours minimum before recoating. (Cure times will vary dependent upon environmental conditions).

• APPLICATION INSTRUCTIONS as a Coating

1. Premix 3460 Part A (resin) and 3460 Part B (hardener) separately, using a low speed drill and Jiffy blade. Mix until uniform, exercising caution to not entrain air into the product.

2. Add 1 part 3460A (resin) to 4 parts 3460B (hardener) by volume. Mix with low speed drill and Jiffy blade until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations. **Take care not to puddle materials and insure even coverage.**

3. Apply 3460 using a tight squeegee coat and backroll with a high quality 3/8" nap roller. Apply at a spread rate of 8-10 mils evenly with no puddles making sure of uniform coverage.

4. Allow to cure 15 hours minimum before opening to traffic. (Cure times vary depending on environmental conditions).

Consult AquArmor System Bulletin for additional application instructions when using 3460 AquArmor WBE.

ORDERING INFORMATION

Packaging:	
Part A:	0.25 gallon (0.95L) and 5 gallon (18.9L) containers
Part B:	1 gallon (3.78L) and 5 gallon (18.9L) containers
Weight:	11.9 ± 0.2 lb/gal; 1.43 Kg/L mixed, may vary by color

CHEMICAL RESISTANCE

For comprehensive chemical resistance information, consult the Chemical Resistance Guide.

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.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

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 Product Data Sheet 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 offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

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.