



Protective & Marine Coatings

AQUARMOR™ WBU Water-Based Urethane

PART A, GLOSS GP4410A
PART B, GLOSS GP4410B01

SERIES
HARDENER

PART A, FLAT GP4411A01
PART B, FLAT GP4411B01

CLEAR
HARDENER

Revised: October 18, 2018

PRODUCT INFORMATION

PRODUCT DESCRIPTION

AQUARMOR™ WBU is a water-based, breathable, aliphatic urethane available in gloss and flat that provides a uniform final finish on both floors and walls.

ADVANTAGES

- Gloss and flat finishes
- No hot-tire pickup / resists hot-tire staining
- Acceptable for use in USDA inspected facilities
- Color matching available at select Sherwin Williams stores
- Breathable
- Long working time
- Lower VOC than comparable solvent-based products
- Good chemical resistance
- Resists common acids, fuels, grease, salt and skydrol
- UV stable

TYPICAL USES

AQUARMOR™ WBU can be used to seal terrazzo, concrete or other floor and wall systems where a gloss finish is desired. Typical coating applications include: aircraft hangars, light manufacturing areas, garages, automotive dealerships and auto service areas. For additional wear resistance, General Polymers 5240 fine aluminum oxide can be added (see the General Polymers HardTop System Bulletin for additional information.)

LIMITATIONS

- **DO NOT allow to freeze**
- 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). Substrate temperature must be at least 5°F (3°C) above the dew point (for lower temperature installation contact the Technical Service Department)
- Maximum dry surface temperature not to exceed 160°F (71°C)
- Thick or puddled material can result in CO₂ entrapment and/or a milky appearance
- This coating though resistant, is not a guarantee against tire staining. Vehicular tires from cars and trucks to tractors and boat trailers are varied and have the potential to leave a stain under certain conditions. Place rubber mats or carpet pieces under the tires to avoid the issue.
- Do not install if raining or when rain is imminent, or a reduction in gloss and working time can be experienced

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: Gloss: Clear, standard, custom colors
Flat: Clear only

Sheen: Gloss or Flat

Mix Ratio: 4:1 by Volume

Volume Solids: 52% ± 2%, mixed

Weight Solids: 55% ± 2%, mixed

VOC (EPA Method 24): <50 g/L ; 0.42 lb/gal, mixed

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns):	3 (75)	6 (150)
Dry mils (microns):	1.5 (37.5)	3 (75)
~Coverage sq ft/gal (m²/L):	278 (6.9)	556 (13.9)

Drying Schedule @ 6 mils (150 microns) wet:

	@ 72°F (22°C)
Rel. humidity	50%
To touch:	4 hours
To walk on:	<18 hours
Light traffic:	min 24 hours
To recoat:	
minimum:	4 hours
maximum:	18 hours
Wheeled traffic:	48 hours

If maximum recoat time is exceeded, abrade surface before recoating.

Drying time is temperature, humidity, and film thickness dependent.

Pot Life: 1 pint @ 77°F (23°C), 1.50 hours

Sweat-in-time: None

Reducer: Water (5-10% Maximum)

Shelf Life: Part A: 12 months, unopened
Part B: 6 months, unopened

Store indoors at 50°F (10°C) to 90°F (32°C)

Flash Point: >200 F° (93°C), PMCC or SETA, mixed

PERFORMANCE CHARACTERISTICS

Substrate: Concrete

System Tested: General polymers 3460 1 coat @ 6 mils DFT
AQUARMOR™ WBU 2 coats @ 3 mils DFT

Test Name	Test Method	Results
Abrasion Resistance	ASTM D 4060 CS-17 wheel 1000 cycles	60 mg loss
Patti Adhesion	ASTM D 4551	1000 psi concrete failure
Hot tire resistance	P&M method	Stain resistant
Pencil Hardness	ASTM D3363	3H



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APPLICATION CONDITIONS

Temperature: 50°F (10°C) minimum,
(air, surface and material)
160°F (71°C) maximum surface
temperature
At least 5°F (2.8°C) above dew point

1. Premix AquArmor WBU (resin) 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 4 parts 4410/11A (resin) to 1 part 4410/11B01 (hardener), mix with low speed drill and Jiffy blade for three minutes and until uniform. Apply 4410/11 using a 1/4" nap roller at a spread rate of 250-400 square foot per gallon evenly with no puddles making sure of uniform coverage. NOTE: 4410/11 can be reduced up to 5-10% with potable water to assist flow when required due to temperature or other environmental conditions.
3. Allow 24 hours minimum before opening to wheeled traffic and water exposure.

NOTE: AquArmor WBU tacks quickly, you must maintain a wet edge to avoid the potential for roller lines, if you see lines during application cross roll to eliminate.

RECOMMENDED SYSTEMS

For use over General Polymers 3460, Water Based Epoxy Primer. See system guides for additional information.

TINTING

Tint bases can be tinted with CCE at 100% strength. Five minutes minimum on a mechanical shaker is required for complete mixing of color.

GP4410W01 - 0-6 oz/gal

GP4410T04 - 10-14 oz/gal

Standard colors are listed in the Shercolor database

CHEMICAL RESISTANCE

Chemical Resistance
24 hour exposure test (NE= No Effect)

Skydrol	Slightly discolored/stain
SafKleen	NE
10% Bleach	NE
CIP 100	NE
Vesphene	NE
LPHsE	NE
25% Phosphoric Acid	NE
50% Sodium Hydroxide	NE
IPA	NE

For comprehensive chemical resistance information, consult the Chemical Resistant Guide and contact the Technical Service Department.

CLEANUP

Clean up mixing and application equipment immediately after use with water.

PERFORMANCE TIPS

NOTE: AQUARMOR™ WBU tacks quickly. You must maintain a wet edge to avoid roller lines. If you see lines during application cross roll to eliminate.

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.

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

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