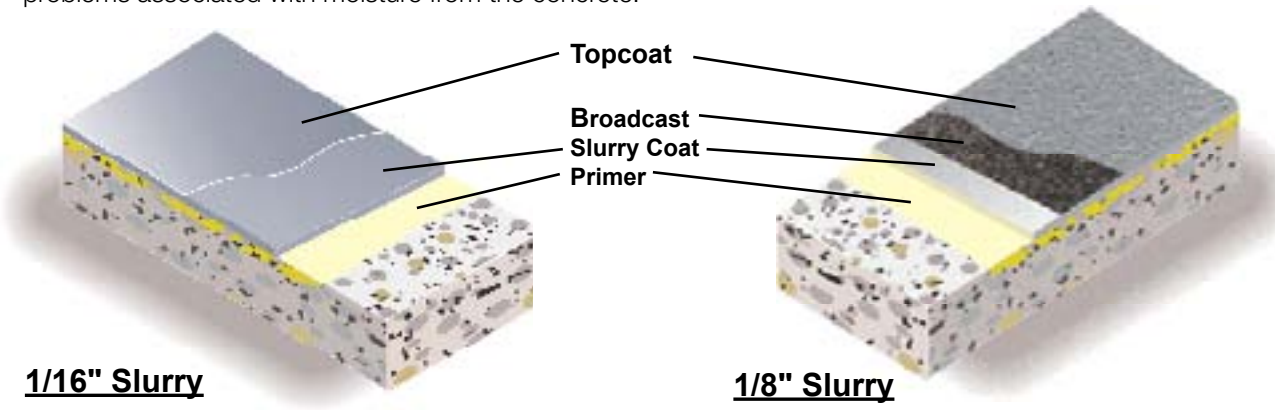
AquArmor™ S Slurry System

General Polymers AquArmor S Slurry System represent a family of flooring systems all built using a single revolutionary new water-based resin technology, AquArmor WBE. System designs include a coating and a 1/16" to 1/8" slurry. All systems are installed quickly, environmentally friendly and are NOT susceptible to problems associated with moisture from the concrete.



1/16" Slurry **1/8" Slurry**

Advantages

- No testing for moisture necessary
- All systems breathe
- Rapidly installed
- Low VOC, low odor
- Seamless
- Good chemical resistance
- Can be applied to "green" concrete
- 100 times the permeability of standard epoxy floor systems
- Water clean up

Uses

- Warehouses
- Aircraft Hangars
- Manufacturing Flooring
- Garages

Limitations

- Protect material from freezing

Typical Physical Properties

Binder Resin 3460		
Viscosity, mixed		1,800-2,400 cps
Pot Life		2-3 hours
Hardness, @ 14 days Shore D ASTM D 2240		80
Adhesion ACI 503R		300 psi concrete failure
System		
Cure Time	Dry to touch	12-16 hours
	Recoat	12 hours
	Light Traffic	12 hours
Resistance to Elevated Temperatures MIL-D-3134J		No slip or flow at required temperature of 158ºF
Impact Resistance ASTM D 4226		Greater than 160 in./lbs (160 lb. load)
Tensile Strength ASTM E 96-95		1,200 psi
Flexural Strength ASTM C 580		1,200 psi
Compressive Strength ASTM C 579		5,800 psi
Permeability		1.4 x 10^{-7}

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 **AquArmor S 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 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. For recommendations, consult the Technical Service Department.

Temperature

Throughout the application process, substrate temperature should be 50ºF – 90ºF. Substrate temperature must be at least 5ºF above the dew point. Applications on concrete substrate should occur while temperature is falling to lessen offgassing. The material should not be applied in direct sunlight, if possible. Protect material from freezing prior to installation.

Application Information @ 1/16” - 1/8” — Surface Prep Profile CSP 2-3

VOC MIXED		MATERIAL	MIX RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<50 g/L	**Primer**	3460 20% potable water	1:4	250 sq. ft./gal	1.25 or 5 gals
<50 g/L **0**	**Slurry Coat 1/16”**	3460 5150	1:4	90 sq. ft./gal 30 lbs / 2.5 gals	1.25 or 5 gals 30 lbs
<50 g/L **0** **0**	**Slurry Coat 1/8”** **Skid Inhibiting Broadcast**	3460 5150 5310	1:4 To Excess	90 sq. ft./gal 30 lbs / 2.5 gals 0.6 / sq. ft.	1.25 or 5 gals 30 lbs 50 lbs
<50 g/L	**Topcoat**	3460	1:4	160-200 sq. ft./gal	1.25 or 5 gals

Different optional seal coats — Consult individual Technical Data Sheets for mixing and application instructions.

4408 WB Polyurethane Enamel

Primer
Mixing and Application

1. Premix 3460B (hardener) using a low speed drill and Jiffy blade. Mix until uniform, exercising caution not to introduce air into the material.

2. Add 1 part 3460A (resin) to 4 parts 3460B (hardener) plus 20% potable water. Mix with low speed drill and Jiffy blade until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations.

3. 3460 may be applied via spray, roller or brush. Apply at 250 square feet per gallon to yield 6-8 mils WFT evenly with no puddles making sure of uniform coverage. Coverage will vary depending upon porosity of the substrate and surface texture.

4. Two applications of 3460 Primer may be necessary to adequately seal and fill the surface imperfections and protect against outgassing. This can be accomplished by applying two tight, flat squeegee coats (pushing not pulling) in opposite directions at 15-20 minutes apart.

Slurry @ 1/16”
Mixing and Application

1. Premix 3460 Part B using a low speed drill and Jiffy blade. Mix for one minute until uniform, exercising caution not to introduce air into the material.

2. Add 1 part 3460A (resin) to 4 parts 3460B (hardener) by volume. Mix with low speed drill and Jiffy blade until uniform. Slowly add up to 30 lbs 5150 AquArmor S Aggregate per 2.5 gallons of mixed material. Mix with low speed drill and Jiffy blade and until uniform and no lumps remain.

3. Immediately pour the mixed material onto the substrate and pull out using a 1/4” v-notched trowel or 1/4” red rubber squeegee.

4. Allow material to self-level, the surface should be lightly backrolled with a looped roller to help smooth. Use a spiny roller to aid in the release of air.

5. Allow to cure 18 hours minimum before applying topcoat. (Cure times vary depending on environmental conditions).

For AquArmor S:
Slurry Coat @ 1/8” Skid Inhibiting
Mixing and Application

1. Premix 3460 Part B using a low speed drill and Jiffy blade. Mix until uniform, exercising caution not to introduce air into the material.

2. Add 1 part 3460A (resin) to 4 parts 3460B (hardener) by volume. Mix with low speed drill and Jiffy blade until uniform. Slowly add up to 30 lbs 5150 AquArmor S Aggregate per 2.5 gallons of mixed material. Mix with low speed drill and Jiffy blade and until uniform and no lumps remain.

3. Immediately pour the mixed material onto the substrate and pull out using a 1/4” v-notched trowel or 1/4” red rubber squeegee.

4. Allow material to self-level, the surface should be lightly backrolled with a looped roller to help smooth. Use a spiny roller to aid in the release of air.

5. System must be broadcast with silica sand (5310) to build to 1/8” thickness.

6. Allow to cure 18 hours minimum before applying topcoat. (Cure times vary depending on environmental conditions).

NOTE: Temperatures and environmental conditions may impact levelling. It is acceptable to reduce the aggregate loading up to 10% of the 5150 AquArmor S aggregate to improve levelling. Excess air movement across the surface should be avoided.

Topcoat (3460 Flat Finish)
Mixing and Application

1. Premix 3460 Part B using a low speed drill and Jiffy blade. Mix until uniform, exercising caution not to introduce air into the material.

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 3/16” nap roller. Apply at a spread rate of 8-10 mils evenly with no puddles making sure of uniform coverage. Two coats may be required over broadcast AquArmor Slurry system.

4. Allow to cure 12 hours minimum before opening to traffic. (Cure times vary depending on environmental conditions).

Different optional seal coat(s) — Consult individual Technical Data Sheets for mixing and application instructions.

4408 WB Polyurethane Enamel

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 (50ºF – 90ºF) 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 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
or call 1-800-524-5979
to have a representative contact you.

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