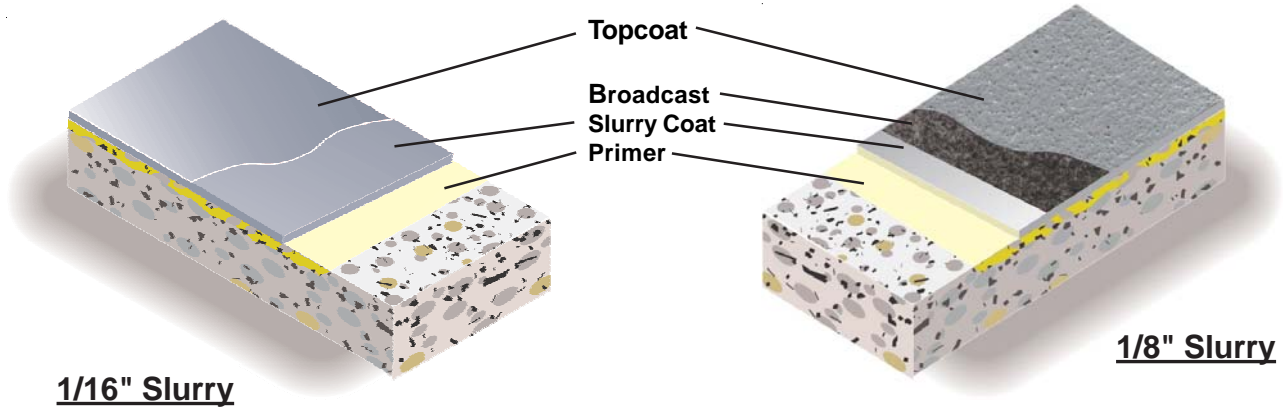




AquArmor™ "S" Slurry Flooring System

General Polymers AquArmor Flooring Systems represent a family of flooring systems all built using a single revolutionary new water-based resin technology, AquArmor WBE. System designs include a coating, a 1/16" to 1/8" slurry, and a 1/4" trowel-applied mortar. All systems are installed quickly, environmentally friendly and are NOT susceptible to problems associated with moisture from the concrete.



Advantages

- No moisture readings necessary
- All systems breathe
- Rapidly installed
- VOC compliant, Low odor
- Seamless
- Easy to clean
- Good chemical resistance
- Can be applied to "green" concrete
- 100 times the permeability of standard epoxy floor systems
- Water clean up
- Flat or Gloss finish coat

Uses

- Warehouses
- Manufacturing flooring
- Garages

Typical Physical Properties

Binder Resin 3460	
VOC (Volatile Organic Content)	Compliant
EPA Method 24	Compliant
SCAQMD Method 304	Compliant
Mix Ratio A:B	1:4
Viscosity, mixed	1,800-2,400 cps
Pot Life	2-3 hours
Hardness, @ 14 days Shore D	80
ASTM D 2240	
Adhesion	350 psi
ACI 503R	100% concrete failure
System	
Cure Time	Dry to touch 12-16 hours
	Recoat 12 hours
	Light Traffic 12 hours
Resistance to Elevated Temperatures	No slip or flow at required temperature of 158°F
MIL-D-3134J	
Impact Resistance	Greater than 160 in./lbs (160 lb. load)
ASTM D 4226	
Tensile Strength	28 days
ASTM C 307	1,200 psi
Flexural Strength	1,200 psi
ASTM C 580	
Compressive Strength	5,800 psi
ASTM C 579	
Permeability	1.4 x 10 ⁻⁷
ASTM E 96-95	perm. cm

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 Slurry Flooring 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 50°F - 90°F. Substrate temperature must be at least 5°F 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 application.**

Application Information Surface Profile CSP 3-5

	Material	Mix Ratio	Theoretical Coverage Per Coat Concrete	Packaging
Primer	3460 plus 20% potable water (6-8 Mills WFT)	1:4	250 sq. ft . gal	1.25 - 5 gals
Slurry	3460 5150	1:4	30 lbs / 2.5 gal 90 sq ft	1.25 - gals 30 lbs
Skid Inhibiting 1/8" Broadcast	5310	To Excess		100 lbs
Topcoat	3460 (Flat Finish)	1:4	160-200 sq. ft. /gal	1.25-5 gals

Different optional seal coat - Consult individual Technical Data Sheet for mixing and application instructions.

3462 AquArmor Coating
4408/4409 WB Polyurethane Gloss or Satin

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.

For AquArmor S:

Slurry Coat @ 1/16" Smooth 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 - Consult individual Technical Data Sheet for mixing and application instructions.

3462 AquArmor Coating
4408/4409 WB Polyurethane Gloss or Satin

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. All applicable 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.

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

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