

# RESUWALL AQUA FR HIGH BUILD FIBER REINFORCED WALL AND CEILING SYSTEM

## Sherwin-Williams Resuwall Aqua FR

is a fiber-reinforced epoxy resin system designed for application to walls and ceilings in demanding environments such as food processing and pharmaceutical facilities. This unique resin combines the toughness expected of a fiber-reinforced epoxy with the ease of application using a brush, roller or spray. The RESUWALL AQUA FR system provides excellent performance properties including light (UV) resistance not typical of epoxy based systems.

### BENEFITS

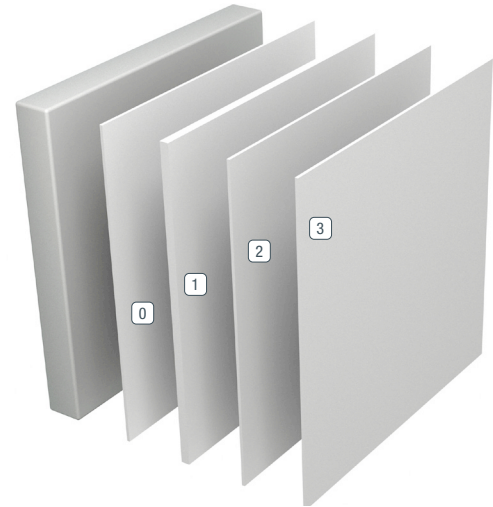
- Light stipple texture
- Easy to apply using brush, roller or spray
- Highly washable surface
- Impact resistant
- Color stable
- Resists cracking
- Chemical resistant
- Acceptable for use in USDA inspected facilities

### USES

- Commercial kitchens and service corridors
- Pharmaceutical facilities and laboratories
- Healthcare and clean rooms
- Animal holding
- Food and beverage facilities
- Locker rooms and restrooms
- Packaging and storage areas
- Cage and skid wash areas

### LIMITATIONS

- Avoid gypsum-based substrate or repair materials in continuously wet areas



- 0 **Primer**
- 1 **Intermediate / Body Coat containing fibers**
- 2 **Topcoat**
- 3 **Optional Finish Coat**

### TYPICAL PHYSICAL PROPERTIES

<b>Color</b>	White, custom colors available
<b>Hardness, Shore D</b> ASTM D 2240	75/70
<b>Tensile Strength</b> ASTM D 412	3,000 psi
<b>Adhesion</b> ACI 503R	300 psi Substrate failure
<b>Flammability</b>	Self-Extinguishing over concrete
<b>Resistance to Elevated Temperatures</b> MIL-D-3134J	No slip or flow at required temperature of 158°F
<b>Fungus &amp; Bacteria Resistance</b> MIL-D-3134F Sec. 4.4.2.11	Will not support growth of fungus or bacteria per test specified TT-P-34

ASTM D = Resin only

**INSTALLATION**

Sherwin-Williams High Performance Flooring materials shall only be installed by approved contractors. The following information is to be used as a guideline for the installation of the Resuwall Aqua FR High Build Reinforced Wall and Ceiling System. Contact the Sherwin-Williams Technical Service Department for assistance prior to application.

**SURFACE PREPARATION – GENERAL**

Sherwin-Williams 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 Sherwin-Williams Technical Service Department prior to starting the project. Refer to Surface Preparation Form G-1.

**SURFACE PREPARATION – CONCRETE**

Consult the Surface Preparation Form G-1 for surface preparation for gypsum board, concrete block, plywood or concrete masonry unit (CMU).

CMU WALLS: Sherwin-Williams Pro Industrial Heavy Duty Block Filler should be used to fill voids in cinder block surfaces. Do not apply in bug holes or grout joints over ¼ inch in depth. For block with rougher texture, more voids and deeper joints contact the Sherwin-Williams Technical Service Department for additional information.

**TEMPERATURE**

Throughout the application process, substrate temperature should be 50-90°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 off gassing. The material should not be applied in direct sunlight, if possible. Protect material from freezing prior to installation. DO NOT ALLOW MATERIAL TO FREEZE.

**APPLICATION INFORMATION**

VOC MIXED	APPLICATION STEP	MATERIAL	MIXED RATIO	THEORETICAL COVERAGE PER COAT CONCRETE	PACKAGING
<50 g/L	Primer	3462	3:1	300-350 sq. ft./gal	4 or 20 gals
<50 g/L	Intermediate / Body Coat containing fibers	3462G	3:1	80-100 sq. ft./gal	4 or 20 gals
<50 g/L	Topcoat	3462	3:1	200-250 sq. ft./gal	4 or 20 gals
<50 g/L	Finish coat Optional	4410/4411	4:1	400-500 sq. ft./gal	1.25 or 5 gals

For additional topcoat options, contact your Sherwin-Williams representative.

## PRIMER

### MIXING AND APPLICATION

\* 3462 should only be used on unpainted, porous surfaces. If the surface is painted with latex or an epoxy coating, clean and abrade the surface then apply the 3462 as primer.

1. Premix 3462A (resin) and 3462B (hardener) separately, using a low-speed drill and Jiffy blade. Mix for one minute until uniform, exercising caution not to introduce air into the materials.
2. Add 3 parts 3462A (resin) to 1 part 3462B (hardener), mix with low-speed drill and Jiffy blade for three minutes until uniform. Up to 5% potable water can be added to lower viscosity. Apply material via airless spray or a 1/4" short nap roller at a spread rate of 300-350 sq. ft. per gallon to yield 5 mils WFT.

## BODY COAT / INTERMEDIATE COAT

### MIXING AND APPLICATION

1. Premix 3462G (resin) and 3462B (hardener) separately, 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 3 parts 3462G (resin) to 1 part 3462B (hardener), mix with low-speed drill and Jiffy blade for three minutes until uniform. To ensure proper system cure and performance, strictly follow mix ratio instructions.
3. Apply using a 3/8" roller in two coats at 10-12 mils per coat. 3462G is a fiber reinforced material.
4. After overnight cure of the first intermediate coat a second coat can be applied if additional thickness is a project requirement.
5. Prior to topcoat application, the cured intermediate coat should be abraded to remove runs, drips or other surface imperfections.

**Recommended Spray Unit:** (May not be practical for small rooms.) The spray data in this document was based on a 45:1 airless unit, smaller pumps may prove more than adequate but should be tested and proven prior to starting a project.

**Graco Mastic Flo-Gun** with pistol grip Model #224991 series A without diffuser

**Graco TexSpray 5900 HD**  
(convertible gas or electric spray unit)

Other airless spray pumps of equal configuration can be used

**Tip size:** GHD Reversible Tip Holder with 517/521 or larger orifice

**Spray pressure:** 3,500 PSI or higher 3/8" ID high pressure spray hose

The filters/screens in both the spray unit and spray gun must be removed prior to spraying the 3462G.

The spray unit and lines should be flushed with water until clear and then flushed with Isopropyl Alcohol (IPA).

## TOPCOAT

### MIXING AND APPLICATION

1. Premix 3462A (resin) and 3462B (hardener) 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 3 parts 3462A (resin) to 1 part 3462B (hardener), mix with low-speed drill and Jiffy blade for three minutes until uniform. To ensure proper system cure and performance, strictly follow mix ratio instructions.
3. 3462 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 48 hours to cure for water exposure and 7 days for chemical exposure.

### TOPCOAT SPRAY APPLICATIONS FOR 3462

#### Recommended Spray Unit:

**Graco Mastic Flo-Gun** with pistol grip Model #224991 series A without diffuser

**Graco TexSpray 5900 HD**  
(convertible gas or electric spray unit)

Other airless spray pumps of equal configuration can be used

**Tip size:** GHD Reversible Tip Holder with 517/521 or larger orifice

**Spray pressure:** 3,500 PSI or higher 3/8" ID high pressure spray hose

## FINISH COAT

### MIXING AND APPLICATION

1. Premix 4410/4411A (resin) 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 4 parts 4410/4411A (resin) to 1 part 4410/4411B (hardener) by volume. Mix with low-speed drill and Jiffy blade for three minutes until uniform. To ensure proper system cure and performance, strictly follow mix ratio recommendations.
3. 4410/4411 may be applied via spray, roller or brush. Apply using a 1/4" nap non-shedding, urethane enamel roller at a spread rate of 400- 500 sq. ft. per gallon evenly with no runs. Note: Roller application will leave a stipple finish. A final roll with a sponge roller will reduce but not eliminate stipple.
4. If a second coat of 4410/4411 is required, recoat at 4-18 hours and no additional prep is required. If the first coat has cured more than 18 hours; abrade the first coat with 100 grit paper or screens to remove gloss then solvent wipe prior to application of the second coat.

## **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 PRECAUTIONS**

Refer to the SDS 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.

## **MATERIAL STORAGE**

Store materials in a temperature controlled environment (40°F-90°F) 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 Sherwin-Williams 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 offered at the time of publication.

Consult [www.sherwin-williams.com/resin-flooring](http://www.sherwin-williams.com/resin-flooring) 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.

## **THE SHERWIN-WILLIAMS DIFFERENCE**

Sherwin-Williams High Performance Flooring delivers world-class industry subject matter expertise, unparalleled technical and specification service, and unmatched regional commercial team support to our customers around the globe.