



Protective & Marine Coatings

RESUTILE™ 4685W URETHANE HIGH PERFORMANCE WALL COATING

PART A GP4685W SERIES
PART B GP4685B01 STANDARD HARDENER

Revised: December 17, 2021

PRODUCT INFORMATION

PRODUCT DESCRIPTION

RESUTILE 4685W Urethane High Performance Wall Coating is a high solids, aliphatic polyurethane, light stable and non-yellowing resin, used as a topcoat to the Sherwin-Williams wall systems. It provides a slight, stipple, high gloss finish ideal for clean environments and frequent wash downs.

ADVANTAGES

- UV Stable (interior or exterior)
- Accpetable for use in USDA inspected facilities
- High gloss
- Resistant to Betadine staining
- Washable with steam or hot water
- Good chemical resistance
- Available with an antimicrobial agent
- May be used in exterior environments

TYPICAL USES

RESUTILE 4685W Urethane High Performance Wall Coating can be used in facilities requiring sanitary surfaces including pharmaceutical, food and beverage and spirits, healthcare, kitchen, bath and washroom areas, clean room environments, correctional and institutional facilities. Resutile 4685W is the finish coat used on Resuwall, Resuwall FX, Resuwall GR, and Resuwall FR wall systems.

LIMITATIONS

- Slab on grade requires vapor/moisture barrier
- 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 60°F (16°C) and a maximum of 90°F (32°C). Substrate temperature must be at least 5°F (3°C) above the dew point.
- Humidity must not exceed 80%
- When required, adequate ventilation shall be provided and proper clothing and respirators worn
- DO NOT PREMIX PART B HARDENER
- Must be applied over primed and/or coated surface
- If an additional coat is required, it is recommended the surface be sanded with a fine grit medium, (150 grit or finer), and then solvent wiped prior to recoating even if within the recoat window
- **Strictly adhere to published coverage rates**

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:	White
Mix Ratio:	1:1
Volume Solids:	99% ± 2%, mixed
Weight Solids:	99% ± 2%, mixed
VOC (EPA Method 24):	<50 g/L ; 0.41 lb/gal, mixed
Viscosity, mixed:	6,500 cps

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns):	3 (75)	4 (100)
~Coverage sq ft/gal (m ² /L):	400 (10.1)	500 (12.7)

Drying Schedule @ 4 mils (100 microns) wet:

	@ 73°F (23°C)
To touch:	8-12 hours
To recoat:	8-24 hours
Full Cure:	3 days

*If maximum recoat time is exceeded, abrade surface before recoating.
Drying time is temperature, humidity, and film thickness dependent.*

Pot Life:	gallon mass	30 minutes	@ 73°F (23°C)
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Shelf Life: Part A: 12 months, unopened
Part B: 12 months, unopened
Store indoors at 50°F (10°C) to 90°F (32°C)

Flash Point: >212°F (>100°C), ASTM D 93, mixed

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Abrasion Resistance	ASTM D 4060, CS17 wheel, 1,000 cycles	20-30 mg loss
Adhesion	ASMT D 3359	Pass
Flammability		Self-extinguishing over concrete
Impact Resistance	ASTM D 2794	Direct inch-pound greater than 160, passes Reverse, inch-pound greater than 160, passes
Pencil Hardness	ASTM D 3363	2H
Resistance to Elevated Temperature	MIL-D-3134J	No slip or flow at required temperature of 215°F (102°C)
Tensile Strength	ASTM D 638	2,000 psi



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APPLICATION

APPLICATION INSTRUCTIONS:

DO NOT PREMIX PART B HARDENER.

1. Premix 4685WA (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to introduce air into the material.

2. Add 1 part 4685WA (resin) to 1 part 4685B (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform. To ensure proper system cure and performance, strictly follow mix ratio recommendations.

3. Resutile 4685W 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. Allow to cure overnight. Allow to cure 48 hours before water exposure and 7 days for full chemical resistance. In cool and/or high humidity conditions, a surface film may form which can be washed with soap and water.

NOTE: Application thicknesses over 5 mils are NOT recommended. Irregular surface defects may occur. Black or dark colored substrates may require two coats.

Mix one gallon at a time. Use clean, dry plastic paint trays between mixes. 3/16" short nap phenolic core nylon or lambs wool covers are required. A light 150 grit sanding, followed by solvent wipe is required for most painted surfaces.

ORDERING INFORMATION

Packaging:	
Part A:	1 gallon (3.8L) and 5 gallon (18.9L) containers
Part B:	1 gallon (3.8L) containers 5 gallons (18.9L) containers
Weight:	10.8 ± 0.2 lb/gal; 1.29 Kg/L mixed, may vary by color

CHEMICAL RESISTANCE

For comprehensive chemical resistance information, consult the Chemical Resistant Guide and contact your Sherwin-Williams representative.

TINTING

Do not tint.

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 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.

MAINTENANCE

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact your Sherwin-Williams 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.