



Protective & Marine Coatings

RESUFLOTM 3555V HD VERTICAL MEMBRANE

PART A
PART B

GP3555V
GP3555VB1

SERIES
HARDENER

Revised: December 17, 2021

PRODUCT INFORMATION

PRODUCT DESCRIPTION

RESUFLO 3555V HD Vertical Membrane is a high solids, vertical grade elastomeric epoxy which combines the toughness, adhesion, and durability of epoxies with the flexibility common to polyurethane elastomers. Flexibility is achieved without the use of plasticizers or other additives which migrate from a material as it ages. Resistance of acids, alkalies, and some solvents expands application possibilities. Resuflo 3555V may be used with fiberglass reinforcing to bridge large cracks and joints.

ADVANTAGES

- Bridges cracks in concrete structures up to 65 mils (1,625 microns)
- Non-sag applications to vertical and overhead surfaces
- Retains long-term flexibility due to unique chemistry
- Thermal shock resistant
- Remains flexible at low temperatures
- Low temperature cure to 40°F (4.5°C)
- Good chemical resistance

TYPICAL USES

RESUFLO 3555V HD Vertical Membrane is recommended for use as a flexible coating and as a component recommended for use as a flexible chemical resistant membrane or crack bridging base coat where substrate movement is evident and/or anticipated on vertical or overhead concrete or steel structures. Resuflo 3555V is recommended for use with other flexible epoxy lining systems, and systems requiring a flexible epoxy membrane with crack bridging capabilities. Installations under aesthetic and functional overlays include: mechanical equipment rooms, kitchens, animal research, wet production, secondary containment and other areas requiring protection from substrate through-system cracking.

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). Substrate temperature must be at least 5°F (3°C) above the dew point (for lower temperature installation contact your Sherwin-Williams representative).
- When required, adequate ventilation shall be provided and proper clothing and respirators worn
- **Strictly adhere to published coverage rates**
- **Strictly adhere to mixing ratios**

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:	Gray
Mix Ratio:	1:1
Volume Solids:	84% ± 2%, mixed
Weight Solids:	91% ± 2%, mixed
VOC (EPA Method 24):	<100 g/L mixed; 0.83 lb/gal

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns):	20 (500)	40 (1000)
~Coverage sq ft/gal (m²/L):	40 (1.0)	80 (2.0)

Drying Schedule @ 6 mils (150 microns) wet:

	@ 73°F (23°C)
To touch:	5 hours
To recoat:	6-24 hours
Full Cure:	48 hours

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

Pot Life: gallon mass 20-25 minutes @ 73°F (23°C)

Shelf Life:	Part A: 36 months, unopened Part B: 36 months, unopened
	Store indoors at 50°F (10°C) to 90°F (32°C)
Flash Point:	>218°F (>103°C), ASTM D 93, mixed

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Adhesion	ACI 503R	300 psi concrete failure
Elongation	ASTM D 412	80%
Flammability		Self-extinguishing over concrete
Hardness, Shore D	ASTM D 2240	75/60
Tensile Strength	ASTM D 412	1,200 psi
Thermal Cycling 24 hrs., -21°C - 25°C	ASTM C 884	No cracking



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APPLICATION

APPLICATION INSTRUCTIONS:

1. Premix 3555VA (resin) using a low speed drill and Jiffy blade. Mix for one minute and until uniform, exercising caution not to whip air into the material.
2. Add 1 part 3555VA (resin) to 1 part 3555VB (hardener) by volume. Mix with low speed drill and Jiffy blade for three minutes and until uniform.
3. Immediately pour the mixed material onto the substrate and pull out using a 1/8" v-notched squeegee to yield 20 mils (500 microns) WFT and cross roll with a 3/8" nap roller. Readings must be taken continuously during application with a wet mil gauge to verify material is being applied at the proper thickness. Allow to cure overnight at 73°F (23°C) surface temperature. Material cures slower at lower temperatures.
4. After the membrane is cured, check for surface blush. Remove any blush with detergent wash completing installation of desired system.

NOTE: Epoxy materials may tend to blush at the surface especially in humid environments. After surface is primed and before installation of each subsequent coat, surface must be examined for blush (a whitish greasy film and/or low gloss). The blush must be completely removed prior to recoating using warm detergent water or through solvent wipe.

Note: Epoxy materials will appear to be cured and "dry to touch" prior to full chemical cross linking. Allow epoxy to cure 2-3 days prior to exposure to water or other chemicals for best performance.

ORDERING INFORMATION

Packaging:	
Part A:	1 gallon (3.8L) and 5 gallon (18.9L) containers
Part B:	1 gallon (3.8L) and 5 gallon (18.9L) containers
Weight:	8.8 ± 0.2 lb/gal; 1.05 Kg/L

CHEMICAL RESISTANCE

For comprehensive chemical resistance information, consult the Chemical Resistant Guide.

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.