

PART A GP4550A
PART B GP4550B01

SERIES
HARDENER

Revised: September 27, 2023

PRODUCT INFORMATION

PRODUCT DESCRIPTION

RESUDECK FLI is a two component, high solids, liquid applied, moisture cured, aromatic urethane polyurea. It can be applied in single or multiple coats.

Advantages:

- Environmentally friendly
- Non-gassing
- Seamless
- Good chemical resistance

TYPICAL USES

- Concrete decks
- Metal, wood or masonry surfaces
- Pedestrian traffic
- Plywood decks
- Vehicular

GENERAL INFORMATION

LIMITATIONS:

CONCRETE:

1. This product is applied as part of a system and requires a primer and base coat.
2. Concrete must exhibit 3000 psi minimum strength. Concrete surfaces to be coated must be free of loose particles, and shall be without ridges, projections, voids and concrete droppings that would be mechanically detrimental to coating application or function.
3. New concrete must be cured for 28 days.
4. Uncured materials are sensitive to heat and moisture.

ORDERING INFORMATION

Packaging:

Part A: 5 gallon (18.9L) pails
Part B: ½ pint (0.24L) cans

PRODUCT CHARACTERISTICS

Colors: Light Gray, Medium Gray and Dark Gray

Volume Solids: 90 ± 2%, mixed (ASTM D2697)

Weight Solids: 92.5 ± 2%, mixed (ASTM D2369)

Mix Ratio: 1:1 by unit

VOC (ASTM D2369-81): <100 g/L ; 0.83 lb/gal

Viscosity at 75°F (24°C): 4000 ± 500 cps

Drying Schedule:

@ 75°F (24°C)

50% RH

Tack Free Time: 2-4 hours

Dry Hard: 16 hours

Foot Traffic: 24 hours

Pot Life: 45 minutes

Shelf Life: 12 months, unopened
Store indoors at 65°F (18°C) to 90°F (32°C)

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results*
Shore A Hardness	ASTM D2240	90 + 5
Tear Resistance, Die C	ASTM D624	300 ± 50 pli (52.6 ± 8.8 kN/m)
Tensile Strength	ASTM D412	2500 ± 200 psi (17.2 ± 2.1 MPa)
Ultimate Elongation	ASTM D412	500 ± 50%

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SURFACE PREPARATION

CHECK THE TEMPERATURE: Floor temperature and materials need to be above 40°F (4.4° C). NOTE: Higher temperature application will yield shorter work times.

CHECK THE CONCRETE: Concrete must be structurally sound and sloped for proper drainage. Sherwin-Williams assumes no liability for substrate defects. If you suspect the concrete has been sealed or coated, call Technical Support for further instructions.

CHECK FOR MOISTURE: Concrete must be dry before application of this floor coating material. Concrete moisture testing must occur. In-situ relative humidity testing is recommended. Readings must be below 75% relative internal concrete humidity when tested in accordance to F2170. If moisture issues are present, the use of a moisture mitigation system may be a consideration. Please call Technical Support for further information / instructions.

APPLICATION EQUIPMENT

- Protective clothing
- Jiffy mixer blade
- Slow speed drill (500 rpm or less)
- Medium (3/8") nap roller
- 18-24" flat rubber squeegee
- Paint (chip) Brushes
- 18-24" 3/16" wide and 5/32" deep notched rubber squeegee (for concrete)
- 18-24" 1/2" notched rubber squeegee (for plywood)
- Sand, (16-30 mesh) Aggregate
- Roller assembly (18")
- Spiked shoes

ASSEMBLE EQUIPMENT: Due to the limited pot life of the material, all application equipment, etc. should be ready for immediate use. (Clean roller with tape to remove any residual lint.)

PREPARATION

Resudeck FLI can be used as either a broadcast resin (seed coat) or topcoat. When used as an intermediate coat with full broadcast it must be applied within 24 hours of the application of the elastomeric base coat. When used as a topcoat over a full broadcast, the floor must be swept and vacuumed to remove excess sand before application begins. If a second topcoat of Resudeck FLI is applied it must be applied within 24 hours of the application of the first coat. For additional information on surface preparation please see Form G-1.

APPLICATION INSTRUCTIONS

INTERMEDIATE COAT:

COVERAGE RATE: Depending upon substrate conditions and system being applied, the following coverage rates for the intermediate coat are the "minimum recommended coverage rates".

Light-duty: 125 sq. ft. per gallon (11.61 m² per 3.78 litres)
Medium-duty: 125 sq. ft. per gallon (11.61 m² per 3.78 litres)
Heavy-duty: 80 sq. ft. per gallon (7.43 m² per 3.78 litres)

PREMIX RESUDECK FLI PART A using a Jiffy mixer blade and slow speed drill. (This is required for 5-gallon (18.9 litres) units. Roll or use a drum mixer to mix the 50-gallon (189 litres) units.)

ADD RESUDECK FLI PART B CATALYST AND MIX THOROUGHLY UNTIL A HOMOGENEOUS MIXTURE AND COLOR IS OBTAINED. Use care not to allow the entrapment of air into the mixture.

IMMEDIATELY POUR ALL OF THE MIXED MATERIAL onto the floor in a single bead.

PUSH THE NOTCHED SQUEEGEE at an even speed with down pressure to spread the material.

START THE SECOND AND REMAINING PASSES by pushing material parallel to the first stroke. Hold the bead of material near the center of the bar and push at an even speed with slight down pressure. NOTE: The use of spiked shoes will allow freedom of movement on the wet floor. CAUTION: The surface will be slippery.

BACKROLL THE MATERIAL with a 3/8" nap roller for a smooth uniform appearance. Backrolling is required to even out squeegee lap marks / the coating mil thickness.

WHEN RESUDECK FLI BEGINS TO SLIGHTLY GEL, BROADCAST 16/30 MESH SILICA SAND. The amount of sand used will vary. (Normal usage is 20-30 lbs. of sand per 100 sq. ft.)

WHEN THE RESUDECK FLI IS STIFF ENOUGH TO SUPPORT THE WEIGHT OF THE INSTALLER WITHOUT DAMAGING THE COATING OR WHEN COATING IS DRY (approximately 2-3 hours), remove loose aggregate.

At 70°F (21°C) and 50% relative humidity, allow coating to cure a minimum of 16 hours before proceeding to subsequent coats. To obtain proper adhesion between coats, it is imperative that recoating be done within 24 hours.

TOPCOAT:

COVERAGE RATE: Depending upon substrate conditions and system being applied, the following coverage rates for the intermediate coat are the "minimum recommended coverage rates".

Light-duty: 100 sq. ft. per gallon (9.29 m² per 3.78 litres)
Medium-duty: 80-100 sq. ft. per gallon (7.43-9.29 m² per 3.78 litres)
Heavy-duty: 80 sq. ft. per gallon (7.43 m² per 3.78 litres)

*Use highlighted coverage rate.

PREMIX using a Jiffy mixer blade and slow speed drill. (This is required for 5-gallon (18.9 litres) units. Roll or use a drum mixer to mix the 55-gallon units.)

MIX THOROUGHLY UNTIL A HOMOGENEOUS MIXTURE AND COLOR IS OBTAINED. Use care not to allow the entrapment of air into the mixture.

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APPLICATION INSTRUCTIONS (CONT'D)

IMMEDIATELY POUR ALL OF THE MIXED MATERIAL onto the floor in a single bead.

PUSH THE NOTCHED SQUEEGEE at an even speed with down pressure to spread the material.

START THE SECOND AND REMAINING PASSES by pushing material parallel to the first stroke. Hold the bead of material near the center of the bar and push at an even speed with slight down pressure. NOTE: The use of spiked shoes will allow freedom of movement on the wet floor. CAUTION: The surface will be slippery.

BACKROLL THE MATERIAL with a 3/8" nap roller for a smooth uniformed appearance. Backrolling is required to even out squeegee lap marks / the coating mil thickness.

BROADCAST ADDITIONAL AGGREGATE AS NEEDED to cover any bare or insufficient aggregate placement.

IF SECOND COAT IS REQUIRED, REPEAT THE STEPS ABOVE for mixing instructions. Apply at 125 sq. ft. gallon (11.61 m² per 3.78 litres). Ramps and turn radii and drive lanes may need two coats to increase durability and to meet project specifications.

At 70°F (21°C) and 50% relative humidity, allow coating to cure a minimum of 16 hours before proceeding to subsequent coats. To obtain proper adhesion between coats, it is imperative that recoating be done within 24 hours.

ALLOW 24 HOURS BEFORE PERMITTING LIGHT PEDESTRIAN TRAFFIC AND AT LEAST 72 HOURS BEFORE PERMITTING HEAVY PEDESTRIAN OR VEHICULAR TRAFFIC ON TO THE FINISHED SURFACE.

NOTE: If an aliphatic topcoat is required use Resudeck FLA. See appropriate Product Bulletin.

CHEMICAL RESISTANCE

Reagent	14 Days
Ethylene Glycol (Antifreeze)	Pass
Mineral Spirits	Pass
Water	Pass

Samples were cut per ASTM D412 & immersed for 14 days per ASTM D471 then tested in accordance with ASTM D412 per ASTM C957.

MAINTENANCE

Allow floor coating to cure at least one week before cleaning by mechanical means (e.g., sweeper, scrubber, disc machine).

Care: Proper maintenance will increase the life and help maintain the appearance of your new Sherwin-Williams floor coating. Sweep and scrub your new coating regularly, as dirt and dust are abrasive and can quickly dull the finish, decreasing the life of your coating. Remove spills quickly as certain chemicals may stain and could possibly permanently damage the finish.

Use soft nylon brushes or white pads on your new floor coating. Any brush more abrasive than a soft nylon or white pad can cause premature loss of gloss.

Detergent: Sherwin-Williams has a full range of detergents--general purpose to heavy duty--for your cleaning needs. For assistance in determining which detergent is right for your facility or for additional technical information, contact your Sherwin-Williams representative.

Caution: Avoid scratching or gouging the surface. All floor coatings will scratch if heavy objects are dragged across the surface.

Do not drop heavy or pointed items on the floor as this may cause chipping or concrete popouts in the case of a weak cap.

Rubber burns from quick stops and starts can heat the coating to its softening temperature, causing permanent marking.

Repair: Repair gouges or scratches or chip outs as soon as possible to prevent moisture or chemical contamination.

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.

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.