



Protective & Marine Coatings

GENERAL POLYMERS 4850 Polyaspartic Floor Coating SS

PART A
PART B

GP4850A
GP4850B01

SERIES
HARDENER

Revised February 12, 2018

PRODUCT INFORMATION

PRODUCT DESCRIPTION

General Polymers™ 4850 Polyaspartic Floor Coating SS is a slower-set coating that gives applicators greater flexibility for flooring applications in a variety of markets. General Polymers 4850's improved flow and leveling characteristics further minimize the potential for roller marks, enabling applicators to create a uniform, smooth finish – even on larger floors.

Advantages

- Fast curing - foot traffic in 6 hours
- Roller lines fade away
- 15-20 minute working time
- Good chemical resistance, mechanical strength
- Low temperature cure
- High gloss finish

TYPICAL USES

General Polymers 4850 is ideal for use in various coating applications where fast cure to service is desired.

- Acceptable for use in high performance architectural applications
- Suitable for use in USDA inspected facilities
- Suitable for use in Canadian food processing facilities
- Food & Beverage (e.g., processing areas, bathrooms, locker rooms, etc.)
- Pharmaceutical (e.g., processing areas, hallways, corridors, etc.)
- Healthcare
- General Industrial/Commercial (e.g., warehouses, automotive showrooms, etc.)

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Concrete:	CSP-3
Epoxy Primer or Basecoat:	Abrade with 60-80 grit paper/screen
Existing Resinous Floor:	Abrade with 36 grit paper/screen

APPLICATION CONDITIONS

Temperature:	35°F (1.7°C) minimum, 120°F (49°C) maximum (air, surface and material) At least 5°F (2.8°C) above dew point (For lower temperature installation contact the Technical Service Department).
Relative humidity:	85% maximum

PRODUCT CHARACTERISTICS

Color:	Clear, Standard and Custom Colors
Sheen:	Gloss
Mix Ratio:	2:1
Volume Solids:	94% ± 2%, mixed (Calculated)
Weight Solids:	97% ± 2%, mixed (Calculated)
VOC (EPA Method 24):	<10 g/L mixed (unreduced)

Recommended Spreading Rate per coat:

	Minimum	Maximum
Wet mils (microns):	6 (150)	15* (375)*
Dry mils (microns):	5.6 (140)	14.1 (350)
~Coverage sq ft/gal (m²/L):	106 (2.7)	251 (6.2)

*Do not apply GP4850A01 at WFT over 10 mils (250 microns)

Drying Schedule @ 10 mils (250 microns) wet:

	@ 35°F (2°C)	@ 77°F (25°C)
Rel. Humidity	50%	55%
To Touch:	2 hours	1 hour
To Handle:	3 hours	2.5 hours
To Recoat:		
minimum:		6 hours
maximum:		36 hours
Cure to service:		
Water resistance:		3 hours
Foot traffic:		6 hours
Wheeled traffic:		24 hours

If maximum recoat time is exceeded, abrade surface with 36 grit paper or screen prior to recoating.

Drying time is temperature, humidity, and film thickness dependent.

Pot life:	384 oz mass	20-25 minutes
Working time:		15 minutes
Sweat-in-time:		None

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:	160 F° (71°C), PMCC or SETA, mixed

PERFORMANCE CHARACTERISTICS

Substrate: Concrete (CSP-3)
System Tested: 1 ct. epoxy primer/basecoat @10-12 mils dft
1 ct. General Polymers 4850 @10-12 mils dft

Test Name	Test Method	Results
Abrasion Resistance	ASTM D 4060	80 m/g loss
Adhesion	ASTM D 4541	425 psi
Direct Impact Resistance	ASTM D 2794	100
Elongation	ASTM D 638	6%
Tensile Strength	ASTM D 638	6,400 psi
Flexibility 1/8" mandrel	ASTM D 1737	Pass
Hardness, Shore D	ASTM D 2040	69
Tear Strength	ASTM D 624	300 ibf/in



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1. Add 2 parts resin and 1 part hardener by volume. Mix with low speed drill and Jiffy blade until uniform. Material can be reduced up to 10% with acetone after mixing

2. Apply General Polymers 4850 at spread rate of 106-162 sq. ft. per gallon to yield 10-15 mils WFT using a squeegee. Back roll with a non shedding 3/8" or lower nap roller.

Note: Use dip and roll method in hot and humid conditions. Moisture in the air will accelerate the cure time. Do not exceed 10 minutes between batch to batch mixes to avoid changes at tie in. Use natural breaks to divide sections of the floor.

Required Tools: Drill, Jiffy blade, Squeegee, non shedding 3/8" or lower nap roller with solvent resistant core.

RECOMMENDED SYSTEMS

	Dry Film Thickness / ct.	
	Mils	(Microns)
Concrete (Polyaspartic):		
1-2 cts General Polymers 4850	6.0-15.0	(150-375)
*Concrete (Epoxy Primer):		
1 ct General Polymers 3579	6.0-20.0	(150-500)
1-2 cts General Polymers 4850	6.0-15.0	(150-375)
**Concrete (Epoxy Top Coat):		
1 ct General Polymers 3746	6.0-10.0	(150-250)
1-2 cts General Polymers 4850	6.0-15.0	(150-375)

*GP3579 Standard Epoxy Primer must be abraded if General Polymers 4850 has not been applied within the PDS specified recoat window. Use 60-80 grit paper/screen.

**GP3746 Epoxy Topcoat must be abraded if General Polymers 4850 has not been applied within the PDS specified recoat window. Use 60-80 grit paper/screen.

ORDERING INFORMATION

Packaging:

Part A: 1 gallon (3.78L) in a gallon (3.78L) container
Part B: 1 gallon (3.78L) in a gallon (3.78L) container

Weight: 10.05 ± 0.3 lb/gal ; 1.20 Kg/L
Mixed, may vary by color

CHEMICAL RESISTANCE

For comprehensive chemical resistance information, consult the Chemical Resistant Guide and contact the Technical Service Department.

CLEANUP

Clean up mixing and application equipment immediately after use with MEK. Observe all fire and health precautions when handling or storing solvents.

PERFORMANCE TIPS

- Coating is a fast cure material, mixing and installation crews must be organized accordingly.
- Light colors may require a second coat to achieve hiding.
- Slab on grade requires vapor/moisture barrier.
- Rapid cure. Do not mix more material than can be applied in 20-25 minutes.
- Strictly adhere to published coverage rates.
- This coating though resistant, is not a guarantee against tire staining. Vehicular tires from cars and trucks to tractors and boat trailers are varied and have the potential to leave a stain under certain conditions. Place rubber mats or carpet pieces under the tires to avoid the issue.

MAINTENANCE

Occasional inspection of the installed material and spot repair can prolong system life. For specific information, contact the Technical Service Department.

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.

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