

PARAPRO FLASHING RESIN

Commercial Product Data Sheet

Product Description

Parapro Flashing Resin is a high performance, multi-component, flexible PMMA resin for use in the Parapro 123 Flashing System.

Product Uses

Parapro Flashing Resin, when catalyzed, is combined with polyester fleece to form a monolithic, reinforced flashing membrane used with a variety of Siplast roofing and waterproofing systems for flashing and repairs.

Color

Parapro Flashing Resin is supplied in light gray (7035) and white (9010) colors.

Packaging

Parapro Flashing Resin is supplied in 10-kg (22-lb) resealable drums with locking rings.

Application and Coverage Rates

Smooth surfaces

Minimum total application rate: 0.31 kg/sf (3.3 kg/m²)
Base coat (minimum application rate): 0.19 kg/sf (2.0 kg/m²)
Top coat (minimum application rate): 0.12 kg/sf (1.3 kg/m²)
Typical coverage per 10-kg pail: 32 square feet

Granule surfaces

Minimum total application rate: 0.4 kg/sf (4.3 kg/m²)
Base coat (minimum application rate): 0.28 kg/sf (3.0 kg/m²)
Top coat (minimum application rate): 0.12 kg/sf (1.3 kg/m²)
Typical coverage per 10-kg pail: 25 square feet

See Siplast Installer's Guides for specific applications. Application and coverage rates will vary depending upon the system selected and the texture and absorbency of the substrate.

Application Conditions

Parapro Flashing Resin is available in summer and winter grades. Care should be taken to ensure that the correct formulation is used for the application based upon the ambient temperature.

Summer Grade

Summer Grade Parapro Flashing Resin can be applied when the ambient temperature is between 59°F (15°C) and 104°F (40°C) and the substrate temperature is between 59°F (15°C) and 122°F (50°C). Discontinue resin application when the ambient or substrate temperature is outside the ranges listed above. Provide adequate shade over the substrate area both prior to and during application as necessary to maintain substrate surface temperatures below 122°F (50°C)

Winter Grade

Winter Grade Parapro Flashing Resin can be applied when the ambient temperature is between 23°F (-5°C) and 68°F (20°C) and the substrate temperature is between 23°F (-5°C) and 77°F (25°C). Discontinue resin application when the ambient or substrate temperature is outside the ranges listed above.

Storage

Product shelf life is 6 months from ship date. Shelf life will be reduced if product is stored at temperatures above 77°F (25°C). Store indoors in a closed container in a well-ventilated, cool, dry area away from heat, open fire, any ignition source, direct sunlight, oxidizing agents, strong acids, and strong alkalis. Do not store in temperatures below 32°F (0°C) or above 95°F (35°C). Product may auto-polymerize at temperatures greater than 140°F (60°C). Materials stored on the job site during application should be kept on a pallet in a shaded, well-ventilated area. In unshaded areas, materials should be covered with a white, reflective tarp in a manner that allows air circulation underneath the tarp.

Mixing & Catalyzing

If batch mixing, thoroughly mix the entire drum of resin for 2 minutes prior to pouring resin into a second container. Catalyze only the amount of resin that can be used within the anticipated pot life. Add pre-measured catalyst to the resin, stir for 2 minutes using a slow-speed mechanical agitator or mixing stick, and apply to the substrate. The amount of catalyst needed is based on the weight of the resin used, and varies with the ambient temperature as shown in the chart on the back of this sheet.

Pot Life

Parapro Flashing Resin pot life is approximately 15 minutes at 68°F (20°C). Pot life will be reduced if the resin is at higher temperatures. Pot life can be maximized by storing product under controlled conditions and ensuring that the resin is at the low range of minimum storage temperature during and following the addition of catalyst and prior to application.

Set (Cure) Times

Minimum set (cure) times noted below are approximate, and may vary. The information provided is based on laboratory conditions, and is intended for use as a guideline only. Actual set (cure) times should be established in the field, based on actual field conditions.

Rain Proof at 68°F (20°C): Approximately 30 minutes
Ready for Next Coat at 68°F (20°C): Approximately 45 minutes
Ready for Foot Traffic at 68°F (20°C): Approximately 2 hours

Tool Cleaning

For best results, clean reusable tools with Pro Prep or Pro Prep M before catalyzed resin on the tools hardens. Note that roller covers are not reusable.

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Handling

Do not smoke. Keep away from open fire, flame or any ignition source. Vapors may form explosive mixtures with air. Avoid skin and eye contact with this material. Avoid breathing fumes. Do not eat, drink, or smoke in the application area.

VOC Content: <50 g/l (when catalyzed)

Consult the Safety Data Sheet (SDS) for additional information pertaining to this product.

Personal Protection Equipment (PPE)

Workers must wear a long sleeved shirt with long pants and work boots. Workers must use only butyl rubber or nitrile gloves when mixing or applying this product. Safety goggles are required for eye protection.

Use local exhaust ventilation to maintain worker exposure below TLV. If the airborne concentration poses a health hazard, becomes irritating, or exceeds recommended limits, use a NIOSH approved respirator in accordance with OSHA Respirator Protection requirements under 29 CFR 1910.134. Specific type of respirator will depend on the airborne concentration. A filtering face piece or dust mask is not acceptable for use with this product if TLV filtering levels have been exceeded.

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Mass and Volume Data for Pro Catalyst Liquid

Pro Catalyst Liquid - net contents per unit			
2.5 kilograms	2.25 liters	2250 milliliters	10 cups

Product	Density (kg per liter)	Liquid Measure (liters per kg)	Liquid Measure (milliliters per kg)
Pro Catalyst Liquid	1.1 kilograms per liter	0.91 liters per kilogram	910 milliliters per kilogram

Pro Catalyst Liquid Mixing Chart Summer Grade Parapro Flashing Resin				
Resin Quantity	Ambient Temperature 68°F to 104°F (20°C to 40°C)		Ambient Temperature 59°F to 68°F (15°C to 20°C)	
	Tablespoons	Cups	Tablespoons	Cups
1 kg (0.72 liter)	2	n/a	4	n/a
10 kg (7.2 liters)	n/a	1	n/a	2
20 kg (14.3 liters)	n/a	2	n/a	4
Substrate temperature range for application of Summer Grade Parapro Flashing Resin is 59°F to 122°F (15°C to 50°C)				

Pro Catalyst Liquid Mixing Chart Winter Grade Parapro Flashing Resin						
Resin Quantity	Ambient Temperature 59°F to 68°F (15°C to 20°C)		Ambient Temperature 41°F to 59°F (5°C to 15°C)		Ambient Temperature 23°F to 41°F (-5°C to 5°C)	
	Tablespoons	Cups	Tablespoons	Cups	Tablespoons	Cups
1 kg (0.72 liter)	2	n/a	4	n/a	6	n/a
10 kg (7.2 liters)	n/a	1	n/a	2	n/a	3
20 kg (14.3 liters)	n/a	2	n/a	4	n/a	6
Substrate temperature range for application of Winter Grade Parapro Flashing Resin is 23°F to 77°F (-5°C to 25°C)						

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Mass and Volume Data for Pro Catalyst Powder

Pro Catalyst <u>Powder</u> Conversion Chart		
Box	Bags	Tablespoons
1 kg	0.1 kg	0.01 kg
10 (0.1 kg) bags	n/a	0.1 bags
100 Tablespoons	10 Tablespoons	n/a

Pro Catalyst Powder Mixing Chart Summer Grade Parapro Flashing Resin

The amount of Pro Catalyst Powder used with Summer Grade Resin varies from a minimum of 2% to 4% maximum by weight, depending upon the ambient temperatures as indicated in the following table.

Resin Quantity	Ambient Temperature 2% Catalyst 68°F to 104°F (20°C to 40°C)				Ambient Temperature 4% Catalyst 59°F to 68°F (15°C to 20°C)			
	g	kg	Tblsp.	0.1-kg Bags	g	kg	Tblsp.	0.1-kg Bags
1 kg (0.72 liter)	20	0.02	2	n/a	40	0.04	4	n/a
10 kg (7.2 liters)	200	0.2	n/a	2	400	0.4	n/a	4
20 kg (14.3 liters)	400	0.4	n/a	4	800	0.8	n/a	8

Substrate temperature range for application of Summer Grade Parapro Flashing Resin is 59°F to 122°F (15°C to 50°C)

Pro Catalyst Powder Mixing Chart Winter Grade Parapro Flashing Resin

The amount of Pro Catalyst Powder used with Winter Grade Resin varies from a minimum of 2% to 6% maximum by weight, depending upon the ambient temperatures as indicated in the following table.

Resin Quantity	Ambient Temperature 2% Catalyst 59°F to 68°F (15°C to 20°C)				Ambient Temperature 4% Catalyst 41°F to 59°F (5°C to 15°C)				Ambient Temperature 6% Catalyst 23°F to 41°F (-5°C to 5°C)			
	g	kg	Tblsp.	0.1-kg Bags	g	kg	Tblsp.	0.1-kg Bags	g	kg	Tblsp.	0.1-kg Bags
1 kg (0.72 liter)	20	0.02	2	n/a	40	0.04	4	n/a	60	0.06	6	n/a
10 kg (7.2 liters)	200	0.2	n/a	2	400	0.4	n/a	4	600	0.6	n/a	6
20 kg (14.3 liters)	400	0.4	n/a	4	800	0.8	n/a	8	1200	1.2	n/a	12

Substrate temperature range for application of Winter Grade Parapro Flashing Resin is 23°F to 77°F (-5°C to 25°C)

Current copies of all Siplast Commercial Product Data Sheets are posted on the Siplast Web site at www.Siplast.com.