

# PARAPRO® ROOF MEMBRANE RESIN

## Commercial Product Data Sheet



**USES:**  
**LIQUID ROOFING**

<b>Colors</b>	Light Gray (#7035) White (#9010)
<b>Grade Options</b>	<p><b>Summer Grade</b>  <b>Ambient Temperature:</b>                      59°F - 104°F (15°C - 40°C)</p> <p><b>Substrate Temperature:</b>                      59°F - 122°F (15°C - 50°C)</p> <p><b>Winter Grade</b>  <b>Ambient Temperature:</b>                      23°F - 68°F (-5°C - 20°C)</p> <p><b>Substrate Temperature:</b>                      23°F - 77°F (-5°C - 25°C)</p>
<b>Typical Set/Cure Time at 68°F (20°C)</b>	<p><b>Rainproof:</b> 30 minutes</p> <p><b>Ready for Raincoat:</b> 30 minutes</p> <p><b>Stress Resistant:</b> 2 hours</p>
<b>VOC Content</b>	< 50 g/L (catalyzed)

### PRODUCT INFORMATION

#### Application

Refer to the applicable Siplast Technical or Installers Guide for detailed application information, including application/coverage rates. Product must be catalyzed before use using Pro Catalyst Liquid. See mixing charts that are supplied with Pro Catalyst products.



#### Storage and Handling

Store indoors in well-ventilated, cool, dry area away from heat, open fire, ignition sources, direct sunlight, oxidizing agents, strong acids, and strong alkalis. Do not store below 32°F (0°C). Product may auto-polymerize at temperatures greater than 140°F (60°C). Store jobsite materials on pallets in shaded, well-ventilated area. Cover unshaded areas with reflective tarp that allows air circulation. Standard shelf life is 12 months; shelf life will be reduced when stored at temperatures above 77°F (25°C).

See product packaging and the Safety Data Sheet for specific information on the safe handling of this product.

#### Packaging

Packaging: 20 kg (44 lb) resealable metal drums  
Units Per Pallet: 36

#### Listings, Approvals, & Certifications



Current copies of all Siplast Commercial Product Data Sheets & Safety Data Sheets are posted on our website at [www.siplast.com](http://www.siplast.com)  
Rev Date 3/2022

### APPLICATION & COVERAGE RATES

Surface	Minimum Total Application Rate	Base Coat Min. Application Rate	Top Coat Min. Application Rate	Typical Coverage (Per 10-kg Pail)
Smooth Surface	31 kg/sq (3.3 kg/m <sup>2</sup> )	19 kg/sq (2.0 kg/m <sup>2</sup> )	12 kg/sq (1.3 kg/m <sup>2</sup> )	64 square feet
Granule Surface	40 kg/sq (4.3 kg/m <sup>2</sup> )	28 kg/sq (3.0 kg/m <sup>2</sup> )	12 kg/sq (1.3 kg/m <sup>2</sup> )	50 square feet

### PHYSICAL & MECHANICAL PROPERTIES

Property (as Installed)	Values / Units	Test Method
Membrane Thickness	90 mils (3.5 mm)	ASTM D5147 Section 6
Peak Load @ 73°F, avg.	70 lbf/in (12.3 kN/m)	ASTM D5147 Section 7
Elongation @ Peak Load, avg.	35%	ASTM D5147 Section 7
Peak Load @ 73°F, avg.	90 lbf/in (15.8 kN/m)	ASTM D412 Section (dumbbell)
Elongation @ Peak Load, avg.	35%	ASTM D 412 Section (dumbbell)
Shore A Hardness, avg.	81	ASTM D2240
Water Absorption, (Method I) (24h @ 73°F [23°C])	0.8%	ASTM D570
Water Absorption, (Method II) (48h @ 122°F [50°C])	1.2%	ASTM D570
Water Vapor Transmission	0.019 perms	ASTM E96
Low Temperature Flexibility	23°F (-5°C)	ASTM D5147 Section 12
Dimensional Stability (maximum movement)	0.15%	ASTM D5147 Section 11
Tear Strength	90 lbf (0.4 kN)	ASTM D5147 Section 8

### PARAPRO WHITE COOL ROOF RATING

	Reflectance	Emittance	Solar Reflectance Index
Initial	0.85	0.89	107
3 Year	0.78	0.88	97
Test Method	ASTM C 1549	ASTM C 1371	n/a

Physical & Mechanical values are based on testing/evaluation of a 90-mil (2.3 mm) Parapro Roof Membrane reinforced with Pro Fleece.

**MASS AND VOLUME DATA FOR PRO CATALYST LIQUID**

**NET CONTENTS PER UNIT**

2.5 kg	2.25 L	2250 mL	10 cups
Product	Density (kg/L)	Liquid Measure (L/kg)	Liquid Measure (mL/kg)
Pro Catalyst Liquid	1.1 kg/L	0.91 L/kg	910 mL/kg

**PRO CATALYST LIQUID MIXING CHARTS**

**SUMMER GRADE PARAPRO ROOF MEMBRANE 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)	
	Tbsp.	Cups	Tbsp.	Cups
1 kg (1 L)	2	n/a	4	n/a
10 kg (10 L)	n/a	1	n/a	2
20 kg (20 L)	n/a	2	n/a	4

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

**WINTER GRADE PARAPRO ROOF MEMBRANE 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)	
	Tbsp.	Cups	Tbsp.	Cups	Tbsp.	Cups
1 kg (1 L)	2	n/a	4	n/a	6	n/a
10 kg (10 L)	n/a	1	n/a	2	n/a	3
20 kg (20 L)	n/a	2	n/a	4	n/a	6

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

**MASS AND VOLUME DATA FOR PRO CATALYST POWDER**

**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 CHARTS**

**SUMMER GRADE PARAPRO ROOF MEMBRANE 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	Tbsp.	0.1-kg Bags	g	kg	Tbsp.	0.1-kg Bags
1 kg (1 L)	20	0.02	2	n/a	40	0.04	4	n/a
10 kg (10 L)	200	0.2	n/a	2	400	0.4	n/a	4
20 kg (20 L)	400	0.4	n/a	4	800	0.8	n/a	8

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

**WINTER GRADE TERAPRO BASE 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	Tbsp.	0.1-kg Bags	g	kg	Tbsp.	0.1-kg Bags	g	kg	Tbsp.	0.1-kg Bags
1 kg (1 L)	20	0.02	2	n/a	40	0.04	4	n/a	60	0.06	6	n/a
10 kg (10 L)	200	0.2	n/a	2	400	0.4	n/a	4	600	0.6	n/a	6
20 kg (20 L)	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 Roof Membrane Resin is 23°F to 77°F (-5°C to 25°C)