

TERAPRO® BASE RESIN

Commercial Product Data Sheet



Terapro Base Resin is a multi-component, fast curing, flexible PMMA resin for use in conjunction with reinforced Terapro Waterproofing Systems. Terapro Base Resin, when catalyzed, is combined with Pro Fleece to form the reinforced layer of Terapro and Terapro VTS Systems.

Contact Siplast for specific information on approved product uses.

USES: TERAPRO SYSTEM COMPONENT

Colors	Beige (#1013)
Grade Options	<p>Summer Grade Ambient Temperature: 59°F - 95°F (15°C - 35°C)</p> <p>Substrate Temperature: 59°F - 122°F (15°C - 50°C)</p> <p>Winter Grade Ambient Temperature: 23°F - 68°F (-5°C - 20°C)</p> <p>Substrate Temperature: 23°F - 77°F (-5°C - 25°C)</p>
Typical Set/Cure Times at 68°F (20°C)	<p>Rainproof: 30 minutes</p> <p>Ready for Next Coat: 45 minutes</p> <p>Stress Resistant: 2 hours</p>
VOC Content	< 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: 10 kg (22 lb) resealable metal drums
 Units Per Pallet: 60

Listings, Approvals, & Certifications



PHYSICAL PROPERTIES

Property (as Installed)	Values / Units	Test Method
Thickness (minimum)	84 mils (2.13 mm)	ASTM D5147 Section 5
Peak Load @ 73.4°F (23°C) (average)	65 lbf/inch (11.38 kN/m)	ASTM D5147 Section 6
Elongation @ Peak Load (average)	35%	ASTM D5147 Section 6
Tear Strength	90 lbf (0.4 kN)	ASTM D5147 Section 7
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 (incl. surfacing components)	0.011 perms	ASTM E96
Dimensional Stability (maximum)	0.15%	ASTM D5147 Section 10
Low Temperature Flexibility	23°F (-5°C)	ASTM D5147 Section 11
Hydrostatic Pressure Resistance	350 psi (2.4MPa)	ASTM D751

Values in this table (other than water vapor transmission) are based on minimum 84 mil (2.13 mm) thick reinforced Terapro Base Resin Membrane. This value excludes any primers, surface aggregate, or finish coats.

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 TERAPRO BASE 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 Terapro Base Resin is 59°F to 122°F (15°C to 50°C)

WINTER GRADE TERAPRO BASE 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 (10L)	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 Terapro Base 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 TERAPRO BASE 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 (1L)	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 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