



TERANAP® 1M SAND

Commercial Product Data Sheet

Teranap 1M Sand is the modified bitumen waterproofing ply designed for use in homogenous multi-layer modified bitumen plaza deck waterproofing membrane systems. Teranap consists of a fiberglass scrim/polyester mat composite impregnated and coated with high quality styrene-butadiene-styrene (SBS) modified bitumen. The top and bottom surfaces of the sheet are covered with a silica parting agent.

Contact Siplast for information on approved product uses.

USES: WATERPROOFING SYSTEM

Standards	ASTM D6162 Type II, Grade S; CSA A123.23-15 Type C, Grade 1
Roll Length	Min: 26.0 ft (7.92 m)
Roll Width	Avg: 3.28 ft (1.00 m)
Coverage	0.75 Square (7.0 m ²)
Coverage Weight Per Square	Min: 116 lb (5.7 kg/m ²)
Selvage Width	4 inches (102 mm)
Selvage Surfacing	Silica Parting Agent
Top Surfacing	Silica Parting Agent
Back Surfacing	Silica Parting Agent
Product Options	RoofTag

PRODUCT INFORMATION

Application

Refer to the Siplast Technical Guide for detailed application information and slope limitations. Teranap 1M Film is lapped 4 inches (102 mm) side and end.



Storage and Handling

All Siplast roll waterproofing products should be stored on end on a clean, flat surface. Rolls should not be dropped on ends or edges or stored in a leaning position. Deformation resulting from these actions will make proper installation difficult. All roofing products should be stored in a dry place out of direct exposure to the elements and should not be double stacked. Material should be handled so that it remains dry prior to and during installation.

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

Packaging

Pallet: 41 in x 48 in (104 cm x 122 cm) wooden pallet
 Rolls Per Pallet: 25
 Pallets Per Truckload: 18
 Minimum Roll Weight: 87 lb (39.5 kg)
 Max Pallet Weight (Typical): 2325 lb (1055 kg)


Listings, Approvals, & Certifications



Classified by UL in accordance with ANSI/UL 790. Refer to UL Product iQ for specific assemblies.
 FM Approved - Refer to RoofNav.com for specific assemblies.
 Meets or Exceeds CSA A123.23.

Current copies of all Siplast Commercial Product Data Sheets & Safety Data Sheets are posted on our website at www.siplast.com

U.S. TEST STANDARDS

Property (as Manufactured)		Values / Units	Test Method
Thickness (minimum)		154 mils (3.9 mm)	ASTM D5147 Section 6
Thickness (average)		157 mils (4.0 mm)	ASTM D5147 Section 6
*Peak Load	@ 73.4°F (23°C) (average)	80 lbf/inch (14.0 kN/m)	ASTM D5147 Section 7
	@ 0°F (-18°C) (average)	115 lbf/inch (20.1 kN/m)	
*Elongation @ Peak Load	@ 73.4°F (23°C) (average)	40%	ASTM D5147 Section 7
	@ 0°F (-18°C) (average)	40%	
*Elongation at 5% Peak Load @73.4°F (23°C) (average)		100%	ASTM D5147 Section 7
*Tear Strength (average)		100 lbf (0.45 kN)	ASTM D5147 Section 8
Water Absorption (maximum)		1%	ASTM D5147 Section 10
Dimensional Stability (maximum)		<0.5%	ASTM D5147 Section 11
Low Temperature Flexibility (maximum)		-15°F (-26°C)	ASTM D5147 Section 12
Compound Stability (minimum)		250°F (121°C)	ASTM D5147 Section 16
			The above properties have been validated by PRI and are under continuous follow-up to ensure compliance. The product has been validated to meet ASTM D6162-08, Type II, Grade S.

CANADIAN TEST STANDARDS

Property (as Manufactured)		Units	CSA A123.23 Requirement	Test Method	Test Performance
Thickness (minimum)		mm (mils)	2.8 (110)	ASTM D5147	3.9 (153)
Selvage Thickness (minimum)		mm (mils)	1.8 (70)	ASTM D5147	3.8 (149)
Mass Per Unit Area (minimum)		kg/m ² (lb/100 ft ²)	2.9 (60)	ASTM D5147	5.8 (119)
Back Surface Coating Thickness (minimum)		mm (mils)	1.0 (40)	ASTM D5147	1.0 (40)
*Strain Energy (Before After Heat Conditioning)	@ 23 ± 2°C (73.4 ± 3.6°F)	kN/m (lbf/in)	5.5 (31)	CSA A123.23	>5.5 (>31)
	@ -18 ± 2°C (-0.4 ± 3.6°F)		3.0 (17)		>3.0 (>17)
*Peak Load (Before and After Heat Conditioning)	@ 23 ± 2°C (73.4 ± 3.6°F)	kN/m (lbf/in)	See Tested Value	ASTM D5147	>13.5 (>77)
	@ -18 ± 2°C (-0.4 ± 3.6°F)				>21 (>120)
*Elongation @ Peak Load (Before and After Heat Conditioning)	@ 23 ± 2°C (73.4 ± 3.6°F)	%	See Tested Value	ASTM D5147	>39
	@ -18 ± 2°C (-0.4 ± 3.6°F)				>38
*Ultimate Elongation, (Before and After Heat Conditioning), @ 23 ± 2°C (73.4 ± 3.6°F)		%	See Tested Value	ASTM D5147	>90
Dimensional Stability (maximum)		%	0.5	ASTM D5147	0.5
Low Temperature Flexibility (maximum)		°C (°F)	-18 (-0.4)	ASTM D5147	-26 (-15)
Low Temperature Weathered Flexibility (maximum)		°C (°F)	-12 (10)	ASTM D5147	-12 (10)
Compound Stability (minimum)		°C (°F)	91 (195)	ASTM D5147	121 (250)
Resistance to Puncture		N/A	Pass	CSA A123.23	Pass
Granule Loss		g (oz)	2.0 (0.07)	ASTM D5147	1.5

Data is based upon typical product performance and is subject to normal manufacturing and packaging tolerance and variation.

*The value reported is the lower of either MD or XD.