PARATECH 180 BASE

Commercial Product Data Sheet

Paratech 180 Base is a modified bitumen base ply of the Paratech two-ply modified bitumen roof system. Designed for use in multi-layer modified bitumen roof membrane systems, Paratech 180 Base consists of a 180-gram polyester mat impregnated and coated with a styrene-butadiene-styrene (SBS) modified bitumen blend and surfaced top and bottom with a mineral parting agent. Approved for use as a protection course in the PA-750 Hot Applied Rubberized Asphalt system.

Contact Siplast for information on approved product uses.

USES:
BASE PLY
FLASHING REINFORCING SHEET

Standards	ASTM D 6164 Type I, Grade S; CSA A123.23-15 Type B, Grade 3	
Roll Length (nominal)	49.2 ft (15 m)	
Roll Width (nominal)	39.4 in (100 cm)	
Coverage Per Roll (Typical)	3" Side: 1.48 Squares (148.3 ft²) (13.8 m²)	4" Side: 1.44 Squares (144.0 ft²) (13.4 m²)
Coverage Weight Per Square (nominal)	62.7 lb (3.1 kg/m²)	64.6 lb (3.2 kg/m²)
Laying Lines (nominal)	3 in (76.2 mm) & 4 in (101.6 mm) Line Color: White	
Top Surfacing	Mineral Parting Agent	
Back Surfacing	Mineral Parting Agent	

PRODUCT INFORMATION

Application

Refer to Siplast specifications for detailed application information and slope limitations. Paratech 180 Base is lapped 3 inches (76.2 mm) side and end in adhered application. In mechanically attached applications, Paratech 180 Base is lapped 4 inch (101.6 mm) side and 4 inch (101.6 mm) end.

Storage and Handling

All Siplast roll roofing 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

Roll Weight (Nominal): 93 lb (42.2 kg)

Max Pallet Weight (Typical): 2500 lbs (1134 kg)
Pallets Per Truckload (Typical): 20

Listings, Approvals, & Certifications

c UL us LISTED FM APPROVED

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
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PARATECH 180 BASE

Physical and Mechanical Properties

siplast With you every step of the way

U.S. TEST STANDARDS

Property (as Manufactured)	Values / MD	Values / XMD	Test Method
Thickness (average)	90 mils (2.3 mm)		ASTM D5147
Peak Load @ 73.4ºF (23ºC) (average)	85 lbf/in	65 lbf/in	ASTM D5147
Peak Load @ 0ºF (-18ºC) (average)	115 lbf/in	90 lbf/in	ASTM D5147
Elongation @ Peak Load 73.4ºF (23ºC) (average)	55%	60%	ASTM D5147
Elongation @ Peak Load 0ºF (-18ºC) (average)	35%	40%	ASTM D5147
Ultimate Elongation 73.4ºF (23ºC)	65%	80%	ASTM D5147
Tear Strength (average)	125 lbf	85 lbf	ASTM D5147
Water Absorption (maximum)	1%		ASTM D5147
Low Temperature Flexibility (maximum)	-15ºF (-26ºC)	-15ºF (-26ºC)	ASTM D5147
Dimensional Stability (maximum)	<0.5%	<0.5%	ASTM D5147
Compound Stability (minimum)	240°F (116°C)		ASTM D5147
Cyclic Fatigue	Paratech 180 Base bonded to an acceptable Paratech cap sheet, with an approved method of attachment, passes ASTM D5849 both as manufactured and after heat conditioning, according to ASTM D5147.		

CANADIAN TEST STANDARDS

Property (as Manufactured)		CAS A123.23 Requirement	Tested Value			
Thickness – mm (mils)		2.2 (85)	2.2 (85)			
*Selvage Thickness – mm (mils)		2.2 (85)	2.2 (85)			
Mass Per Unit Area – kg/m^2 (lbs/100 ft^2)		2.6 (53)	3.1 (62)			
Back Surface Coating Thickness, min. – mm (mils)		1.0 (40)	1.0 (40)			
			Before Heat Conditioning MD/XD		After Heat Conditioning MD/XD	
Strain Energy, min. – kN/m (lbf/in)	@ 23 ± 2°C (73.4 ± 3.6°F)	5.5 (31)	5.5 (31)	5.5 (31)	5.5 (31)	5.5 (31)
	@ -18 ± 2°C (-0.4 ± 3.6°F)	3.0 (17)	3.0 (17)	3.0 (17)	3.0 (17)	3.0 (17)
Peak Load, min. – kN/m (lbf/in)	@ 23 ± 2°C (73.4 ± 3.6°F)	See Tested Value	16.8 (96)	10.2 (58)	18.6 (106))	9.6 (55)
	@ -18 ± 2°C (-0.4 ± 3.6°F)		21.4 (122)	13.3 (76)	22.1 (126)	13.0 (74)
Elongation @ Peak Load, %	@ 23 ± 2°C (73.4 ± 3.6°F)	See Tested Value	50	53	43	43
	@ -18 ± 2°C (-0.4 ± 3.6°F)		39	39	40	38
Ultimate Elongation @ 23 ± 2°C (73.4 ± 3.6°F), %		See Tested Value	62	70	45	47
Dimensional Stability, max., %		1.0	1.0	1.0	1.0	1.0
Low Temperature Flexibility, max. – °C (°F)		-18 (-0.4)	-26 (-15)	-26 (-15)	-26 (-15)	-26 (-15)
Low Temperature Weathered Flexibility , max. – °C (°F)		N/A	N/A			
Compound Stability, min. – °C (°F)		102 (215)	102 (215)	102 (215)	102 (215)	102 (215)
Resistance to Puncture		N/A	N/A			
Granule Loss (Grade 1 only), max. – g (oz)		N/A	N/A			

Data is based upon typical product performance and is subject to normal manufacturing and packaging tolerance and variation.
*Measured on the selvage edge excluding the granule surfacing.

Siplast 14911 Quorum Dr., Suite 600 Dallas, TX 75254

19748 86 Ave, Unit 155 Langley, BC, Canada V2Y1Z5

Customer Service in North America 1.800.922.8800 www.siplast.com