



Thermoplastic Single Ply and Multi-Ply Roofing Systems

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Flex SBS 90 Mil S/S Base Sheet

Physical Properties

Thickness	0.090 inches (2.2 mm) <u>+ 10%</u>
Tensile Strength @ 0° F	
Machine Direction	112 lbf / inch
Cross Machine Direction	88 lbf / inch
Elongation @ 0° F	
Machine Direction	40%
Cross Machine Direction	37%
Tensile Tear	
Machine Direction	117 lbf / inch
Cross Machine Direction	88 lbf / inch
Low Temperature Flexibility	
Machine Direction	-10°F
Cross Machine Direction	-10°F
Dimensional Stability	
Machine Direction	<u>< 0.5%</u>
Cross Machine Direction	<u>< 0.5%</u>

Material tested in accordance with ASTM D5147 Standard Test Method for Sampling and Testing Modified Bitumen Roofing Membranes.

Packaging

Thickness	2.2 mm (90 mils)	Top Surface	Sanded
Roll Length	49.2 ft.	Bottom Surface	Sanded
Roll Width	39 3/8"		
Gross Coverage	161.4 ft ²		
Net Coverage	147.8 ft ²		

Uses

Flex SBS 90 Mil S/S Base Sheet is designed for use as the base or first ply in Flex's high performance modified bitumen roofing system.

Features

- Designed for application in new construction, re-roofing and retrofit roofing.
- SBS polymer provides flow resistance at high temperatures and flexibility at low temperatures for lasting durability.
- Non-woven polyester 180g/m² reinforcement providing for excellent tear resistance.

Limitations

Non-resistant to oils and solvents. Refer to manufacturer for specific chemical resistance. Not designed for permanent exposure. Install Flex Cap Sheet Membrane over base sheet for permanent exposure.

Storage

Store rolls on end, on original pallets or elevated platform. Protect from weather or store in an enclosed area not subject to heat over 120° F.

Surface Preparation

Refer to Flex's General Specifications for preparation and acceptable substrates.

Application

Flex SBS 90 Mil S/S Base Sheet must be mopped, nailed or cold adhered to substrate.

Begin application of the base sheet at the lowest edge or drain. Proceed up the slope from the lowest point. Position and unroll base sheet to achieve correct overlap and alignment. Re-roll one end a minimum of 10' and adhere membrane to substrate. Complete application of remainder of sheet.

Mopping Application: Roofing asphalt shall be Flex SEBS or ASTM D312 Type III on slopes up to 1:16 and Type IV for slopes greater than 1:16. Use Flex SEBS or Type IV for all flashing.

Asphalt must be applied hot, so that its mopping temperature is not below 400° F when measured at the mop cart, to facilitate correct interply thickness, adhesion and uniformity. The roofing membrane must be unrolled into the hot asphalt immediately. Mopping should not be more than 4' ahead of unrolling. Unroll into asphalt mopped at the rate of 20-30 lbs./100 ft², lapping 3" on sides and 6" on ends. The presence of a bead of asphalt should be observed flowing out of the seams. Mopping at ambient temperatures below 40° F requires special care and treatment. Refer to Flex's General Specifications.

Cold Adhered Application: Apply Flex Bitumen Adhesive by notched squeegee to laps as well as the field of the sheet at the rate of approximately 1.5 gal/100 ft².

A notched squeegee with notches 1/4" long, 1/8" deep, spaced on 1" is ideal for smooth surfaces. For irregular surfaces the notches should be 1/4" deep. Best results occur above 50° F. The adhesive thickens at colder temperatures and proper coverage becomes difficult.

Roll out Flex 90 Mil S/S Base Sheet and allow to relax prior to application. Apply adhesive to substrate and allow 3 to 5 minutes open time prior to rolling in membrane. Installation without allowing open time could result in prolonged softening of the membrane or blisters.

Slopes 1:12 (1" in 12") or Greater: In addition to the above, apply membrane parallel to direction of slope and blind nail or mechanically fasten membrane at end or head lap on 6" centers.