FLEX SA (SELF-ADHESIVE) VAPOR BARRIER

PRODUCT DESCRIPTION
Flex SA Vapor Barrier is a self-adhesive membrane composed of SBS modified bitumen and tri-laminated woven polyethylene facer for use in approved multi-ply membrane and flashing assemblies. Flex SA Vapor Barrier is composed of a proprietary formulation of elastomeric styrene-butadiene-styrene (SBS) polymer modified bitumen in combination with a high tack self-adhesive specifically designed for use with steel decks.

SURFACE PREPARATION
Except for the steel deck, all substrates must be primed with Flex SA Primer. The substrate should be clean and sound, free of loose materials or contaminants, such as water and grease which may compromise the performance of the product.

APPLICATION
Do not apply Flex SA Vapor Barrier if temperatures are below 14°F (-10°C). Prior to installation, unroll Flex SA Vapor Barrier onto the roof surface and allow to relax. Flex SA Vapor Barrier may be applied to steel, plywood, gypsum, concrete, or asphalt panels. Place vapor barrier in desired position. Side Laps must be a minimum of 3in. (75mm) and end laps must be a minimum of 6 in. (150 mm). All end laps on steel deck shall be supported by a metal plate 6 in. x 42 in. (15 cm x 106 cm). Remove the protective release film from the underside of the sheet and roll Flex SA Vapor Barrier into place with a weighted roller. Refer to Flex specification manual for additional application guidelines.

INSTALLATION INSTRUCTIONS

1) Starting at the bottom of the slope, unroll the Flex SA Vapor Barrier to align it, without yet adhering it onto the substrate. Do not immediately remove the silicone release film.

2) Align the roll parallel to the flutes of the steel deck. Make sure membrane overlaps are supported along their entire length.

3) Remove one end of the silicone release film and adhere this part of the membrane to the substrate. Remove the remaining release film at a 45° angle to avoid wrinkling the membrane.

4) Overlap adjacent rolls by 3 in. (75 mm). End laps must overlap by 6 in. (150 mm). Space end laps by at least 12 in. (300 mm).

5) When the vapor barrier is installed directly on a steel deck, place a thin sheet of metal under the end laps of the vapor barrier.

6) The installation is completed.

PHYSICAL PROPERTIES

Physical Properties	Standards	Flex SA Vapor Barrier
Thickness – mils (mm)	-	31 mils (0.8)
Dimensions – feet (m)	-	134 x 3.7 (40.8 x 1.14)
Gross/Net coverage/roll - ft² (m²)	-	500/468 (46.5 / 43.5)
Roll Weight – pounds (kg)	-	80 (0.16 lb/ft²)
Bottom Face	-	Silicone release film
Top Face	-	Tri-laminate woven polyethylene
Tensile Strength, MD/XD lbf/in (kN/m)	ASTM D 5147	54/74 (9.5/13)
Ultimate elongation, MD/XD (%)	ASTM D 5147	33/25
Cold Bending ºF (ºC)	ASTM D 5147	-58°F (-50°C)
Static Puncture lbf (N)	ASTM D 5602	90 (400)
Tear Resistance, MD/XD lbf (N)	ASTM D 1970	95/103 (423 /458)
Lap Adhesion, lbf (N/m)	ASTM D 1876	68 (1000)
Water Absorption (%)	ASTM D 5147	0.1 (max.)
Peel Resistance, lbf/in (N/m)	ASTM D 903	5.4 (950)
Water Vapor Permeance perm (ng/Pa· s· m²)	ASTM E 96	0.03 (1.7)
Air Permeability, (L/sec· m²)	ASTM E 2178	<0.001

Roll Length - 134' (40.8m)   Roll Width - 45" (1.14m)   Rolls per pallet - 16
Coverage - 468 ft² (43.5 m²)   Roll Weight - 80 lb. (35.8 kg)

STORAGE

Store rolls on end and maintain in an upright position to prevent damage. Store rolls in a clean dry location and cover as necessary to prevent rolls from environmental damage such as extreme cold, heat or moisture. Monitor varying environmental conditions during storage, handling and application of Flex SA Vapor Barrier.

LIMITED WARRANTY

The manufacturer believes the information and recommendations herein to be accurate and reliable. However, since use conditions are not within its control, the manufacturer does not guarantee results from use of such products or other information herein and disclaims all liability from any resulting damage or loss. **No warranty, express or implied, is given as to the merchantability, fitness for particular purpose, or otherwise with respect to the products referred to.**