

SABIT ELASTOFLEX-SEFP

INTRODUCTION

SABIT ELASTOFLEX SEFP is a superior flexibility SBS (Styrene- Butadiene- Styrene) polymer modified membrane, which is straight bitumen modified with SBS, consisting of a central non-woven polyester core, impregnated and coated on the both sides with layers of SBS polymer modified bitumen and finished with heat fusible polyethylene film on both surfaces.

TECHNICAL DATA

Ref F05-21 Issue MEM JANUARY 2020

NO	PROPERTIES	TYPICAL RESULT		TOLERANCE	TEST METHOD	
1	Roll size, m	10	10	≥10	ASTM D 5147	EN 1848-1
2	Thickness, mm	4 or 5	4 or 5	±5%	ASTM D 5147	EN 1848-1
3	Unit weight (plain), kg/m ²	4 or 5	4 or 5	±10%	ASTM D 5147	EN 1848-1
4	Carrier polyester, g/m ²	180	200		UEATC, M.O.A. T.30	
5	Softening point (°C)	>110	>110		ASTM D 36	
6	Penetration at 25°C, dmm	30-40	30-40		ASTM D 5	
7	Cold flexibility, °C	-18 to -20			ASTM D 5147	
8	Tensile Strength @23±2°C (N/5cm)					
	Longitudinal	800	900	±20%	ASTM D 5147	EN 12311-1
Transverse	600	800	ASTM D 146			
9	Tensile Strength @23±2°C (KN/m)					
	Longitudinal	16	18	±20%	ASTM D 5147	EN 12311-1
Transverse	12	16	ASTM D 146			
10	Elongation, % @ 23±2 °C					
	Longitudinal	45	50	±15%	ASTM D 5147	
Transverse	50	55				
11	Tear strength (N)					
	Longitudinal	400	450		ASTM D 4073	
Transverse	300	400				
12	Lap joint strength (N)					
	Longitudinal	800	900		ASTM D 5147	
Transverse	600	800				
13	Heat resistance at 120 °C	No flow			ASTM D 5147	
14	Puncture resistance @ N	700			ASTM D154	
15	Resistance of water pressure	No leakage			DIN 52123	
16	Water absorption %	<0.15			ASTM D 5147	
17	Compound stability °C, minimum	1			ASTM D 6222	
18	Moisture content % maximum	1			ASTM D 6222	
19	Low temperature unrolling °C, maximum	5			ASTM D 6222	

Note:

Saudi Bitumen Industries Co. Ltd.(SABIT) may modify the technical data sheet without prior notice.

Description

SABIT ELASTOFLEX SEFP is the ultimate waterproofing membrane. The multilayered design consists of non-woven polyester core, impregnated and coated on both sides with the SBS (Styrene-Butadiene-Styrene polymer) modified bitumen and finally finished with heat fusible polyethylene film on both surfaces. **SABIT ELASTOFLEX SEFP** SBS modified bitumen waterproofing membrane are produced from a blend of special grade elastomeric polymers and bitumen. This combination gives the proven waterproofing qualities of bitumen elasticity, excellent resistance to heat, ageing and weathering and ease of application by torch welding. The polyester core gives the membrane high tensile strength, elongation and superior lap joint strength.

SABIT ELASTOFLEX SEFP is available in two basic finishes:

- Finish with polyethylene surface for covered application **SABIT ELASTOFLEX SEFP**
- Granular surfacing for exposed application **SABIT ELASTOFLEX SEFP-G**

Approximate Coverage Rate

Flat areas: 1.15m² per 1m² area with 10cm side overlaps and 15cm end laps
Base flashing : 0.40m²/linear meter (100x35 cm with 15 cm end laps)
Wastage : 3-5%

Features

- Total impermeability for complete waterproofing
- Superior flexibility because of the high content of rubber
- Good performance at board temperature range
- Compatible with all roofing and building component
- Good bond ability and seam integrity
- Stability at high ambient temperature

Uses

SABIT ELASTOFLEX SEFP could be widely used in all kinds of waterproof engineering projects in all fields, especially for the following types of engineering projects.

- All kind of building roof engineering projects, treading non-treading, planting building surfaces, roof parking lots and converted building surfaces.
- All kind of underground waterproof or damp-proof engineering projects
- Water spraying pools, swimming pools, penstocks, water pools and similar works
- Recommended for area with a cold climate

Limitation

SABIT ELASTOFLEX SEFP is not designed to be used in permanently exposed surfaces. Use **SABIT ELASTOFLEX SEFP-G** for such purpose or use **SABIT ELASTOFLEX SEFP** with a covering insulation or ballast.

Neither **SABIT ELASTOFLEX SEFP** nor **SABIT ELASTOFLEX SEFP-G** are oil and solvent resistant.

Surface preparation

- Clean the surface smooth and free moisture and debris or any kind of substance that would prevent the membrane from adhering properly.
- The roof must have a minimum slope of 1% (10mm per meter) evenly and continuously towards the drain.
- Surface must be primed with **SABIT Primer D-41**.

Membrane installation

- Unroll the membrane making sure the edge (side lap joint) is aligned with the low point of the roof. Re-roll one end of the center of the roll and apply, then proceed with the opposite half. Proceed up the slope with further rolls.
- The end of the propane torch head should be positioned between 150mm and 300mm from the surface depending on the weather condition. Maximum heat is obtained at the blue end of the flame. The welding procedure will be more effective if the torch and thus the flame is moved continuously in rectangular pattern from the roll to the substrate. The movement should be slowed over the joint of the base sheet in order to apply enough heat to soften the bitumen and to fill possible voids.
- For the best results, make sure that there is always a small amount of molten bitumen on front of the roll being heat welded.

Packing

SEFP, SEFP-G, for 4MM = 23 Rolls per pallet
SEFP, SEFP-G, for 5MM = 16 Rolls per pallet

Storage and handling

- Vertically store the rolls in pallets
- Store under shaded warehouse away from sunlight and dust
- Rolls in pallet should not be stored over the other



Manufacturer's warranty

Subject to conditions and limitation of Saudi Bitumen Industries Co. Ltd.(SABIT) written warranty.

Note:

Saudi Bitumen Industries Co. Ltd.(SABIT) may modify the composition and/or utilization of its products without prior notice consequently orders will be filled according to the latest specification.