

SABIT SELFADO - SSAP

Prefabricated Self-adhesive Waterproofing Membrane

INTRODUCTION

SABIT SELFADO - SSAP is a high-performance multi-ply prefabricated waterproofing membrane consisting of a highly elastic SBS bituminous compound internally reinforced with non-woven polyester mat or a glass fiber and tipped with high density polyethylene (HDPE) film. It also incorporates a quick release film or paper in order to ensure clean adhesion.

TECHNICAL DATA

Ref F05-21 Issue MEM JANUARY 2020

NO	PROPERTIES	TYPICAL RESULT			TEST METHOD	
1	Roll size, m	15	15	15	ASTM D 5147	EN 1848-1
2	Thickness, mm	1.5, 1.6, 1.8, 2.0			ASTM D 5147	EN 1849-1
3	Unit weight (plain), kg/m ²	1.5, 1.6, 1.8, 2.0			ASTM D 5147	EN 1849-1
4	Carrier polyester, g/m ²	55 glass	110 composite	120-140	UEATC, M.O.A. T.30	
5	Softening point (°C)	>110	>110	>110	ASTM D 36	
6	Penetration at 25°C, dmm	40-60	40-60	40-60	ASTM D 5	
7	Cold flexibility, °C	Up to -15	Up to -15	Up to -15	ASTM D 5147	
8	Tensile strength @23±2°C, N/5cm				UEATc	EN 12311-1
	Longitudinal	350	450	500	ASTM D 5147	
9	Elongation, % @23±2 °C				UEATc	EN 12311-1
	Longitudinal	3	3	40	ASTM D 5147	
10	Tear Resistance (N)				ASTM D 4073	
	Longitudinal	200	400	400		
11	Lap joint strength (N)				ASTM D 5147	
	Longitudinal	350	450	500		
12	Adhesion strength N/mm	>2	>2	>2	ASTM D 1000	
13	Puncture resistance @ N	120	120	400	ASTM D154	
14	Water absorption, % by wt.	<0.15	<0.15	<0.15	ASTM D 5147	

Variation of ±5% in thickness, ±10% in weight, and 20% in tensile and 15% in elongation is acceptable according to standard.

Note:

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

Features

- Quick release silicone coated film. Siliconized release paper is also available on demand.
- The highly elastic cross-laminated HDPE film provides the enhanced protection in terms of elongation and strength and makes the membrane suitable for a variety of application in basement, tanking, waterproofing swimming pools, foundation and pile capping, roofing, bridge decks, wet areas and civil works.
- Provided with a 100mm factory placed side selvage for clean and strong overlapping
- High puncture resistance and tensile strength
- Excellent dimensional stability
- Lagged adhesion to allow for adjustments during application.
- Excellent resistance to high methane and salinity environment, or other chemicals present in the soil.
- In tanking it is recommended to be used in combination with SABIT protection boards or membranes to ensure proper protection from damage during backfilling.
- Accommodates structural movement with a high crack bridging capability
- Self-healing

Surface preparation

Clean the surface smooth free of 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 drains. Surface must be primed with SABIT PRIMER D-41 at the rate 4-5m²/L. Allow the primer to dry overnight.

Membrane installation

Remove the release film by peeling back not more than 30cms at a time. Start to unroll the SABIT SELFADO membrane keeping the adhesive side face-down on the primed surface. Press down the membrane. Working from the center to the outer edges. This will expel all trapped air, ensuring good adhesion to the primed substrate. For subsequent rolls align the adjacent roll along the factory designed selvage of the first roll. Re-roll the membrane. Peel back the selvage on the initial roll, then peel back the release film or paper from the second roll and place firmly. This should be done one meter at a time. The minimum end lap should be 150 mm and 100mm for side laps. If any mistake is committed, immediately remove the second roll and replace it before it reaches its full adhesion power. It is important to pass against the overlaps with a light wooden roller. SABIT SELFADO - SSAP membrane should always be protected in all application. SABIT protection boards are highly recommended as a flexible, semi hard easy to install protection mainly before backfilling on vertical surfaces in underground tanking working.

When application temperature drops below 10°C, it is essential to heat the primed surfaces, before applying the membrane, either with gas torch or hot air blower. At surface temperature below 5°C, care should be taken to ensure all surfaces are dry and free of ice, frost and condensation. Material stored at temperature below 20°C should be left exposed to a warmer temperature for at least 24 hours. Ambient temperature above 50°C may give rise to difficulty in removing the release film or paper. It will be better to wait until the temperature goes down.

Approximate Coverage Rate

Flat areas : 1.12m² per 1m² area with 10cm side overlaps and 15cm end laps
Wastage : 3-5%

Packing

SABIT SELFADO - SSAP membrane comes as standard 1×15m rolls (28 rolls per pallet). All rolls are packed vertical on pallets with special high strength shrink – warp it must be transported and kept in stocks always in a vertical position.



Manufacturer's warranty

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