ROCK SHEILD

SBS Waterproofing Membrane

Description

ROCK SHEILD is an Elastomeric high performance, prefabricated, modified bitumen membrane consisting of proprietary waterproofing bitumen compound, reinforced with non-woven polyester Carrier.

ROCK SHEILD proprietary waterproofing compound is formulated with high grade bitumen modified with Styrene Butadiene Styrene (SBS) polymer which provides additional elasticity flexibility and dynamic resistance.
The membr ane withstands temperature fluctuations and high mechanical loads providing a long-term, reliable and effective waterproofing.
To improve the UV resistance and durability for The Product, the membrane is coated with Mineral Stabilizers.

Key Features

- High U.V. resistance (Mineral Finish).
- Excellent thermal resistance
- Strong adhesion to substrate
- Proven water impermeability
- Chemical resistance to wide range of light acidic, alkaline solutions and bacteria.

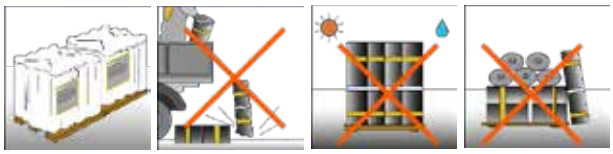
Application

ROCK SHEILD waterproofing membrane are used for a wide variety of application:

- Roofing or Re-roofing for covered single layer system or as a base layer for multi-layer systems.
- Wet area, Swimming Pool and Toilets.
- Underground waterproofing
- Flat and Sloped roofing

- The Product could be applied for waterproofing of foundations and engineering structures by torcing, hot air generator or by using special adhesives in both cold and hot applications.
- Cleaning the substrate surface is a must, till it be comes dry, smooth, and remove any particles.
- Based on surface conditions, a coat of ROCKAL primer product will be required prior to the appli cation of the membrane.
- According to the waterproofing system design and adhesion instruction, SBS-Product can be applied to the substrate fully bonded, semi bonded or loose laid.
- Overlapping is essential as follow, side laps from 8-10 cm and end laps from 12-15 cm.
- Please refer to the ROCKAL applicator guide for complete instruction on the application of the product

Transportation & Storage



- Rolls must be in an upright position on a pallet in a One-row height.
- Avoid falls or other mechanical impacts during loading and unloading of rolls.
- Storage of rolls in a horizontal position is prohibited.
- Protect the rolls from direct UV-rays, any source of heat and moisture.

ROCK SHEILD (PES)

Test	Test Method	Tolerance	Result	Unit	الإختبـــار
Thickness	EN 1849-1	±5%	4	mm	السمك
Width	EN 1848-1	±1%	1	m	العرض
Length	EN 1848-1	±1%	10	m	الطول
Straightness	EN 1848-1	-	± 6	mm	درجة الإستقامة
Softening Point (R&B)	ASTM D-36	≥	120	ºC	درجة التطرية
Flexibility at low temperature	EN 1109 ASTM D-5147	-	- 15 : - 20	ºC	المرونة عند درجات الحرارة المنخفضة
Flow resistance at elevated temperature	EN 1110 ASTM D-5147	-10	110	ºC	الثبات عند درجات الحرارة العالية
Tensile Strength-Longitudinal	EN 12311-1ASTM D-5147	± 25%	900	N/5cm	مقاومة الشد القصوي-طوليا
Tensile Strength-Transverse	EN 12311-1ASTM D-5147	± 25%	600	N/5cm	مقاومة الشد القصوي-عرضيا
Elongation @Break -Longitudinal	EN 12311-1ASTM D-5147	± 15	45	%	معدل الإستطالة - طوليا
Elongation @Break -Transverse	EN 12311-1ASTM D-5147	± 15	50	%	معدل الإستطالة - عرضيا
Tearing Strength-Longitudinal	EN 12310-1	≥	220	N	مقاومة التمزق-طوليا
Tearing Strength-Transverse	EN 12310-1	≥	240	N	مقاومة التمزق-عرضيا
Tensile Tear Resistance-Longitudinal	ASTM D-5147 D-4073	± 20%	600	N	مقاومة التمزق بطريقة الشد-طوليا
Tensile Tear Resistance-Transverse	ASTM D-5147 D-4073	± 20%	450	N	مقاومة التمزق بطريقة الشد-عرضيا
Resistance to Static Loading	EN 12730	≥	20	Kg	مقاومة الإختراق الإستاتيكى
Resistance to Impact Loading	EN 12691	≥	1000	mm	مقاومة الإختراق الديناميكى
Shear Resistance of joint L/T	EN 12317-1	± 20%	800/500	N/5cm	مقاومة الشد عند منطقة التركيب (طوليا/عرضيا)
Dimensional Stability L/T	EN 1107-1	-	1	%	ثبات الأبعاد
Adhesion to concrete	Pelage UEATC	-	40	N/5cm	قوة الإلتصاق بالاسطح الخرسانية
Water absorption	ASTM D-5147	≤	0.15	%	درجة إمتصاص الماء
Fire Classification - Extemal Fire Performance	EN 13501-5	-	F roof	-	تصنيف الحريق-أداء الحريق الخارجي
Reaction to fire	EN 13501-1	-	E	-	رد الفعل عند التعرض للنار
Water Impermeability at Low Pressure	EN 1928 method A	-	Pass	60Kpa	عدم نفاذية الماء للضغط المنخفض
Water Impermeability at High Pressure	EN 1928 method B	≥	Pass	200Kpa	عدم نفاذية الماء للضغط المرتفع
Thermal Ageing in air (in oven 4 weeks at 70 ± 2°C)	EN 1296	-	Pass	-	الإهتراء نتيجة التسخين
Ageing Due to Atmospheric Agents (U.V. Test weathering)	ASTM G 53 UNI 8202/29	-	Pass	-	مقاومة التقادم للاشعة فوق البنفسجية
Average loss of slates	EN 12039	≤	30	%	متوسط الفاقد من الحبيبات

The manufacturer reserves the right to change the specification of the product or its performance, or the contents of the guide, without any prior notice.

- Note Products could vary in: Thickness - 3:4mm
- ± All Tolerances according to UEAtc Directives
- PES: Non-Woven Polyester Reinforcement Carrier
- This TDS issued 01/2024 Revoke all previous issued

Surface Finish

Polyethylene Film
Aluminium Foil

Slates
Red/Grey/Green

Sand
Yellow/White

Packing

Item	Roll Size	Rolls/Pallet	Rolls/20 Container
3mm	(1x10)m	28	560
4mm	(1x10)m	23	460