

Reinforced Self-Adhesive SBS Membrane

DESCRIPTION

SELF-DAN PER is self-adhesive SBS waterproofing membrane produced with special multi-layer design with a dimensionally stable, inert, rot-proof glassfibre matt reinforcement, which is impregnated and coated on both sides with a uniquely formulated, elastomeric, SBS bitumen compound, which provides high adhesive properties.

The membrane is covered on its top surface with a translucent polyethylene and the underside with a siliconised release paper. This combination provides instant adhesion with high tear and puncture resistance and improved tensile strength.

USES

SELF-DAN PER is the ideal membrane for damp proofing and waterproofing of foundations, retaining walls, and sub-structures.

It is also suitable for use under composition shingles and roof tiles, as a protective shield against water and ice.

ADVANTAGES

- Self-Healing properties, minor perforation will automatically heal.
- Easy and fast application, no torch is necessary.
- Easy to apply at complex geometries.
- Total flexibility of the material, and perfect accommodation to the support.
- Excellent adhesion to the support.
- Easy to repair in case of accidental damage.
- Preserve its properties in long term due to SBS compound.
- High durability of the waterproofing due to the SBS elastomer compound of the membrane.
- High chemical, and microbiological resistance.

APPLICATION

Temperature of surface should be between 5°C and 40°C and 3°C above the dew point temperature during membrane installation.

All surfaces to receive SELF-DAN PER shall be sound, clean and dry, free from cracks, loose material, undulations, laitance, sharp protrusive materials, etc.

The well-prepared dry surface should be primed with one coat of TIKIDAN Primer TIKI PRIME S, applied by brush or roller @ 4 to 6 m²/ltr., depending on the surface porosity and allowed to dry completely before the application of the SELF-DAN PER.

SELF-DAN PER should be laid by peeling back the protective release paper and applying the adhesive face onto the primed surface.

Adjacent rolls are aligned and overlapped minimum 100 mm at side laps and 150 mm at end laps and well rolled with a firm pressure using a suitable roller to ensure complete adhesion and continuity between the layers.

During winter, the application of the gentle heat between layers by hot air gun or soft flame will assist promoting adhesion at lap joints.

Care should be to ensure that no wrinkles formation takes place during membrane installation.

Any punctures or damage in the installed membrane should be cleaned and patched using SELF-DAN PER with 100 to 150 mm laps all around.

Once the membrane installation is complete, care has to be taken to ensure proper protection against physical damage from other civil trades.

Membrane on vertical plane should be protected against damage from backfilling by spot bonding the bituminous protection board TIKIDAN PRO-BOARD or HDPE dimple protection boards DANODREN H15.

SUPPLY

Presentation	Value
Nominal Roll Length	20 m / 25 m / 30 m
Nominal Roll Width	1 m
Nominal Thickness	1.5 mm
Nominal Weight	1.5 Kg./m ² (1.5mm)

STORAGE

SELF-DAN PER rolls must be stored in upright vertical position in a dry condition above 5°C and below 40°C. Store under the shed & protect from rain, sun, heat and extremes of temperature. Avoid stacking of rolls horizontally on their sides or in double stack position.

PROPERTIES*

Sr. No.	Property	Value	Standard
1.	Softening Point, °C (Coating Compound)	110	ASTM D36
2.	Penetration, @ 25°C, dmm (Coating Compound)	70 (+10)	ASTM D5
3.	Reinforcement	50-60 gm/m ² Glassfibre Matt	–
4.	Tensile Strength Longitudinal Transverse	400 N/5cm (5.3 N/mm ²) 300 N/5cm (4 N/mm ²)	ASTM D412 ASTM D828 UNI 8202
5.	Elongation at Break (Coating Compound)	>2000 %	ASTM D412(c) DIN 1955
6.	Elongation at Break (Membrane)	≥300 %	ASTM D5147
7.	Lap joint strength Longitudinal Transverse	400 N/5cm 300 N/5cm	UEAtc
8.	Tear Resistance Longitudinal Transverse	23 KN/m 28 KN/m	ASTM D624
9.	Puncture Resistance	18 Kg.	ASTM E154
10.	Water Absorption, (72 hrs.@ 23°C)	<0.08 % by weight	ASTM D5147
11.	Water Vapor Transmission Permeance	<0.2 g/m ² /24 hr. Impermeable	ASTM E96 Procedure E 37.8°C and 90% RH
12.	Adhesion Strength To Primed Deck To Self	3 N/mm 3 N/mm	ASTM D1000
13.	Low Temperature Flexibility	(-)20°C pass	UNI 8202 UEAtc
14.	Impermeability of Welded Seams to Water Pressure	Absolutely Impermeable	UEAtc Guidelines
15.	Resistance to Accelerated Aging (Weather-O-Meter) 2000 Hrs (Equals 10 Years Exposure to Elements)	Pass	ASTM G53 UNI 8202

*The above values are average values based on the laboratory test and are subjected to the tolerance levels of UEAtc / ASTM.

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