

SELF-DAN PER PLUS



Reinforced Self-Adhesive SBS Membrane with Cross Laminated Film

DESCRIPTION

SELF-DAN PER PLUS is a self-adhesive, extremely flexible elastomeric waterproofing membrane.

The elastomeric self-adhesive SBS Modified bitumen compound is reinforced with rot proof 50 to 60 gsm Glassfiber matt backed with a Cross Laminated HDPE film resulting in outstanding physical properties making SELF-DAN PER PLUS as one of the most rugged self-adhesive membranes. The advanced carrier film is manufactured by cross laminating and chemically bonding the layers together.

USES

SELF-DAN PER PLUS is ideal for damp proofing and waterproofing of foundations, retaining walls, basements, and other sub-grade structures.

When used in conjunction with TIKISWELL water-stop of TIKIDAN casted into the concrete construction joint, SELF-DAN PER PLUS provides a high performance, chemically resistant and continuous waterproofing / tanking system for basement and sub-structures.

ADVANTAGES

- Extremely flexible with over 1200% elongation (of coating compound)
- Bridges shrinkage cracks in the concrete.
- Elastomeric and self-healing- accommodates minor settlement.
- High strength cross laminated film imparts high dimensional stability, tear strength, puncture and impact resistance.
- Self-adhesive - eliminates need for the torching.
- Excellent resistance to aggressive soils and contaminated ground water.
- Provides maximum resistance to water or vapour transmission.

APPLICATION

All surfaces to be waterproofed should be free from ice, frost or condensation.

Temperature of surface should be between 5°C and 40°C during membrane installation.

All surfaces to receive SELF-DAN PER PLUS 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 PLUS.

SELF-DAN PER PLUS 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 50 mm at side laps and 100 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.

SELF-DAN PER PLUS when installed under the raft slab, it should be extended minimum 300mm beyond the retaining wall so as to envelope on to the vertical surface and connect to the membrane on vertical plane.

Any punctures or damage in the installed membrane should be cleaned and patched using SELF-DAN PER PLUS 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.

It is recommended to apply a 25 to 50mm screed as horizontal protection to the installed membrane or apply TIKIDAN PRO-BOARD bituminous protection boards spot bonded to the installed membrane.

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.

PROPERTIES*

Sr. No.	Property	Value	Standard
Properties of Membrane			
1.	Nominal Thickness	1.5 mm	UEAtc, ASTM D751
2.	Tensile Strength Longitudinal Transverse	350 N/5cm 250 N/5cm	ASTM D5147
3.	Elongation at Break	≥300 %	ASTM D5147
4.	Tear Strength Longitudinal Transverse	210 N 130 N	ASTM D5147
5.	Puncture Resistance	210 N	ASTM E154
6.	Resistance to Hydrostatic Pressure	7 bar	DIN 1048, ASTM D5385
7.	Flexibility at Low Temperature	(-)20 °C, Passes	UEAtc
8.	Adhesion Strength to Primed Concrete	2.2 N/mm	ASTM D1000
9.	Adhesion Strength to self	2.2 N/mm	ASTM D1000
10.	Water Vapour Transmission	0.2 gr/m ² /24hrs	ASTM E96
11.	Water Absorption @ 24 hrs. @ 35 days	0.14 % 0.95 %	ASTM D570
12.	Environmental Resistance	Conforms	ASTM D543
13.	Crack Bridging Ability	2 mm	ASTM C836

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

SUPPLY

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

STORAGE

SELF-DAN PER PLUS 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.

ADDITIONAL PROPERTIES*

Properties of Coating Compound (Adhesive Compound)			
1.	Elongation	2000 %	ASTM D882
2.	Softening Point	110 °C	UEAtc, ASTM D36
Properties of Top Surfacing (Cross Laminated Film)			
3.	Tensile Strength Longitudinal Transverse	35 N/mm ² 30 N/mm ²	ASTM D882
4.	Elongation Longitudinal Transverse	550 % 600 %	ASTM D882
5.	Tear Strength Longitudinal Transverse	180 N/mm 190 N/mm	ASTM D1004

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TIKITAR DANOSA (INDIA) PRIVATE LIMITED

Tiki Tar Estate, Village Road, Bhandup (W), Mumbai - 400 078,
Maharashtra, India. T: +91 22 4126 6699
E: info@tikidan.in | W: www.tikidan.in

