

SELFDAN IPE PLUS

Cross Laminated Film Surfaced Self-Adhesive SBS Membrane

DESCRIPTION

Self-Adhesive membrane **SELFDAN IPE PLUS** is a self-adhesive bituminous waterproofing sheet with non-protected surface.

Composed of self-adhesive SBS polymer bitumen with an upper surface finish of a cross laminated high density polyethylene film (HDPE) and a lower surface finish of siliconized release film.

It conforms to the requirement of BS 8102.

ADVANTAGES

- Watertight - resistance to hydrostatic head of water.
- Crack Bridging properties due to high compound elongation - allows membrane to accommodate movements in the building structure.
- Excellent mechanical properties in all directions (tear strength and tensile strength, puncture and impact resistance) due to the cross laminated high density polyethylene film (HDPE) finish.
- Elastic behaviour (good memory and recovery).
- Elastomeric and self-healing, minor perforation will automatically heal.
- Cold applied, easy and fast application, no torch is necessary.
- Total flexibility of the material to apply at complex geometries & perfect accommodation to the support.
- Excellent adhesion to the primed support.
- Controlled thickness during factory production ensuring constant error-free site application.
- High durability of the waterproofing due to the SBS elastomer compound of the membrane.
- High chemical, oxidation & microbiological resistance.

USES

SELFDAN IPE PLUS is use for the waterproofing and damp proofing of underground walls, basement raft, tunnels, substructures and inverted roofs under tiles.

PROPERTIES

Properties	Value	Standard
Total Thickness	1.5 mm & 2mm ± 0.10 mm	-----
Softening Point of Compound	>100°C	ASTM D36
Tensile Strength (Membrane) Longitudinal Transversal	≥4 N/mm ² ≥3.60 N/mm ²	ASTM D5147 / ASTM D412
Tensile Strength (Film) Longitudinal Transversal	≥42 N/mm ² ≥48 N/mm ²	ASTM D882 / ASTM D638
Elongation at Break, (Membrane) Longitudinal Transversal	≥ 300 % ≥ 300 %	ASTM D5147 / ASTM D412
Elongation at Break (Film) Longitudinal Transversal	≥230 % ≥ 180 %	ASTM D882 / ASTM D638
Puncture Resistance	≥220 N	ASTM E154
Tear Resistance (Membrane) Longitudinal Transversal	≥210 N ≥180 N	ASTM D4073
Tear Resistance (Film) Longitudinal Transversal	≥340 N/mm ≥310 N/mm	ASTM D1004
Flexibility at Low Temperature	≤ -15 °C	ASTM D1970
Bond Strength (to Primed Concrete)	≥2 N/mm	ASTM D1000
Bond Strength (to Self) – Lap Adhesion	≥2.10 N/mm	ASTM D1000
Water Vapor Transmission	≤0.30 g/m ² /day	ASTM E96
Hydrostatic Pressure Resistance	≥6 bar (No Leakage)	BS EN 12390 (Part 8)
Crack Bridging Ability	≥1.5 mm	ASTM C836
Water Absorption @ 14 Days @ 35 Days	≤0.14 % by Wt. ≤0.35 % by Wt.	ASTM D570
Environmental Resistance (Chemical Resistance)	Conforms (pH:2 to 13)	ASTM D543
Flow Resistance at Elevated Temperature	≥70°C	ASTM D5147

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

The surface receiving waterproofing treatment shall be dry with moisture content <4% and thoroughly cleaned to remove dirt, dust, grease, oil, foreign substances etc., using appropriate tools & methods.

It is recommended to prime the surface using a bituminous primer **TIKI PRIME S** @ 4 to 6 m²/ltr., prior to installation of membrane.

Primer should be dry before the application of the membrane. Drying time depends on ambient temperature and humidity.

APPLICATION

The membrane is bonded completely to the primed surface by peeling-off the release film from the membrane bottom and pressing it against the surface using suitable roller.

Side overlap of at least 75 mm and end overlap of at least 100 mm should be maintained properly at the time of application, the overlap sealed by pressing it against the surface using suitable roller.

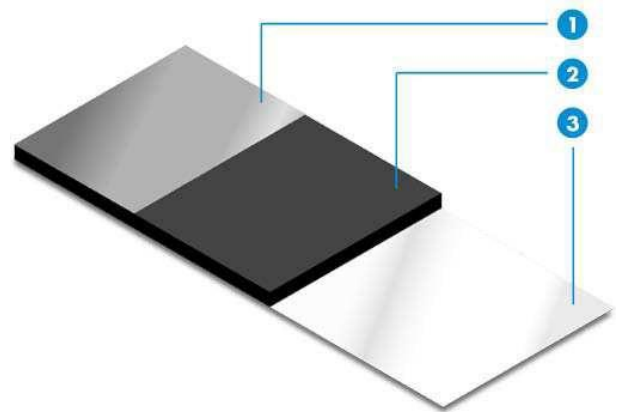
IMPORTANT RECOMMENDATIONS

SELDAN IPE PLUS membrane should not be applied when temperature is below +10°C.

The membrane after application should not be left exposed to sun for extended period to prevent U.V. rays damage.

On vertical surface, the membrane after installation should be protected immediately after application with HDPE dimple boards **DANODREN**.

On horizontal surface, the membrane after installation should be protected immediately with 50mm cement-sand screed.



- (1) Cross Laminated HDPE flexible film
- (2) Elastomeric SBS Polymer Modified Bitumen
- (3) Releasable Polyethylene film

SUPPLY

SELDAN IPE PLUS is supplied in following standard roll sizes.

Thickness	Roll Size (W x L)	Roll Surface (Area)
1.5 mm	1m x 20m	20 m ²
2.0 mm	1m x 15m	15 m ²

STORAGE

This product is not-toxic and non-flammable. It must be stored in a dry place under the covered shed and protected from rain, sun, heat, U.V rays and low temperatures. It must be stored upright.

Never store **SELDAN IPE PLUS** in close proximity of any sharp or protruding edges to avoid puncturing or damaging.

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