

PRODUCT SPECIFICATIONS

INSUSELF -G SBS BITUMEN MEMBRANE

Founded by

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1974

INSUSELF-G

Product Description:

INSUSELF-G is a self-Adhesive Bituminous Waterproofing Membrane Reinforced with Fiberglass Felt is a high-performance, cold-applied waterproofing membrane designed for applications such as roofs, basements, foundations, and below-grade structures. It features a polymer-modified bitumen layer reinforced with a fiberglass felt for enhanced tensile strength and dimensional stability. The Product bottom layer is protected by a removable silicone release film, ensures strong adhesion to various substrates. The top surface is available with polyethylene (PE) film, aluminum foil, Cross laminated film or mineral granules for UV protection and durability. This membrane is ideal for flame-free installations and offers excellent waterproofing, flexibility, and long-term performance.

Storage:

Store in a dry, enclosed area at 5-30°C, away from direct sunlight to maintain adhesive properties. Avoid stacking rolls horizontally to prevent deformation.

Handling:

Handle with care to avoid damage to the release film or adhesive layer.

Applications:

- Flat roofs, terraces, balconies, and inverted roofs.
- Basements, foundations, retaining walls, and pile heads.
- Tunnels, subways, and underground structures.
- Swimming pools, water tanks, and reservoirs.
- Chemical plants, oil depots, and flame-free installation areas.
- Cold pipes

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INSUSELF-G

SBS Self-Adhesive BITUMEN WaterProofing Membrane

Reinforced With Fiberglass Felt

Test Method	Unit	Standard	Tolerance	Result		
				1.5 mm	2mm	2.5 mm
Tensile Strength [Longitudinal]	N/50 mm	ASTM D412 / EN 12311-1	±20%	350	350	350
Tensile Strength [Transverse]	N/50 mm	ASTM D412 / EN 12311-1	±20%	200	200	200
Elongation at Break [Longitudinal]	%	ASTM D412 / EN 12311-1	≥	2	2	2
Elongation at Break [Transverse]	%	ASTM D412 / EN 12311-1	≥	2	2	2
Tear Strength [Longitudinal]	N	ASTM D624 / EN 12310-1	±30%	150	180	200
Tear Strength [Transverse]	N	ASTM D624 / EN 12310-1	±30%	120	140	160
Lap Joint Strength	N/50 mm	ASTM D1876 / EN 12316-1	±20%	340	340	340
Shear Resistance of Joints [Longitudinal]	N/50 mm	ASTM D5147 / EN 12317-1	±20%	350	350	350
Shear Resistance of Joints [Transverse]	N/50 mm	ASTM D5147 / EN 12317-1	±20%	200	200	200
Peel Adhesion to Concrete	N/m	ASTM D903	≥	3000	3000	3000
Water Impermeability	kPa, 24 hr	ASTM D5147 / EN 1928		Pass	Pass	Pass
Low-Temperature Flexibility	°C	ASTM D1970 / EN 1109	Min.	-20	-20	-20
Heat Resistance	°C	ASTM D5147 / EN 1110	±10	No flow at 80°C	No flow at 80°C	No flow at 80°C
Softening Point	°C	ASTM D36 / EN 1427	±20	90	90	90
Puncture Resistance	mm	EN 12691	Min.	200	200	200
Dimensional Stability	%	ASTM D5147 / EN 1107-1	≤	0.1	0.1	0.1
Thickness Uniformity	mm	ASTM D5147 / EN 1849-1	±5%	1.5	2	2.5
Length	m	-	-	15	15	15
Fire Classification	-	BS EN 13501-5 / ENV 1187	-	BROOF(t4)	BROOF(t4)	BROOF(t4)
Water Vapor Transmission	-	ASTM E96	-	≤ 0.3 g/m²/day	≤ 0.2 g/m²/day	≤ 0.1 g/m²/day
UV Resistance	-	ASTM G154	-	No degradation (1000 hr)	No degradation (1000 hr)	No degradation (1000 hr)

Notes:

All test values are typical and may vary based on specific product formulations and thicknesses.

Tests are conducted in accordance with ASTM, EN, or other relevant standards to ensure compliance with industry requirements. and other relevant standards for modified bituminous membranes EN Standards: Complies with BS EN 13707:2004 for reinforced bitumen membrane sheets and EN 13501-5 for fire classification

This data sheet is provided by Insumat Company for Waterproofing. For project-specific requirements, technical support, or additional certifications, please contact our team.

Installation Guidelines

1. Surface Preparation:
2. Ensure substrate is clean, dry, smooth, and free of dust, oil, or loose particles.
3. Repair cracks with cement mortar or bitumen mastic.
4. Apply Primertech (ASTM D41 compliant) at 0.3-0.4 L/m²; allow 24 hours to dry.
5. Membrane Application:
6. Peel back silicone release film (~30 cm at a time) and press adhesive side onto substrate using a heavy roller to eliminate air bubbles.
7. Maintain overlaps of 10 cm (longitudinal) and 15 cm (end joints).
8. Post-Installation:
9. Inspect for air bubbles, folds, or loose areas and correct immediately.
10. Use protection boards or drainage layers for below-grade applications.