



GLASS GUM

APP Modified Bitumen Membrane



Description:

GLASSGUM is a fiberglass-reinforced waterproofing membrane, specially formulated from selected distilled bitumen modified with Atactic Polypropylene (APP) thermoplastic polymers

Features:

- Resistant to ageing
- Stable at high temperature
- Strong adhesion to concrete substrate
- Chemically stable
- Resistant to tear and puncture
- Root proof
- Resistant to organic salt solutions, dilute acids alkalies, sulfate and chloride alkalies
- Flexible at low temperature
- Compatible with most roofing product
- Flashing made on the spot by using same membrane
- Easy to apply
- Resistant to UV

Uses:

- Waterproofing for Roofs, Retaining walls, Terraces, underground foundation, and basement
- Suitable as a low cost membrane for many built-up roofing applications.
- Membrane that is inert and rot-proof for bonding with hot asphalt.
Can be used alone for jobs that are not subject to big structural movement

Application Instruction:

- Surfaces onto which the membrane is to be applied must be sound, clean and dry.
Dust, loose material and protrusions must be removed and cracks, holes etc made good.
- Priming: Apply one coat of **AIWIN PRIMER** to all surfaces and allow it to dry.
- Membrane Application: Position the rolls carefully with the correct orientation before the torching operation begin.
Heat the lower surface of the rolls with a propane gas torch and unroll as the bitumen begins to melt.
Maintain minimum 10cm side laps and 10cm end laps between rolls, staggering the joints where possible.
All seams must be heat sealed from the top to ensure watertight laps.
- The membrane may be loosely laid partially or fully bonded, depending on the Structure and specifications.

Storage and material Handling:

The rolls should always be stored vertically in shaded area .normally the plates should not be stacked one over the other however ,if a wooden board is used in between ,two pallets may be stacked one over the other

Health & Safety:

- Roofing torches have been successfully used for many years how ever since an open flame is present, fire Extinguishers should be available in the site
- Labor should wear personal protective tools such as gloves and goggles during application



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TECHNICAL SPECIFICATIONS

CHARACTERISTICS	STANDARDS	VALUES
ROLL DIMENSION	ASTM D5147 / EN 1848-1	1 X 10m
SURFACING		PE film, Sand
REINFORCEMENT	ASTM D6222 / BS747	200g/m ² fiber glass
THICKNESS ± 5%	ASTM D 5147 /EN 1849-1	3,4,5 mm
MEMBRANE WEIGHT	ASTM D 5147 /EN 1849-1	3,4,5 Kg/m ²
PUNCTURE RESISTANCE @ N	ASTM D 5147 / EN12691	Not perforated at ≥25 kg Class 4
PENETRATION at 25°C, dmm	ASTM D 5 / EN1426	20 ±5
SOFTENING POINT °C	ASTM D 36 / EN1427	150 ±5
COLD FLEXIBILITY	ASTM D5147 /EN 1109	-5°C
TENSILE STRENGTH(L)	ASTM D 5147 /EN 12311-1	250 N/5 cm
TENSILE STRENGTH(T)	ASTM D 5147 / EN 12311-1	200 N/5 cm
ELONGATION (L)	ASTM D 5147 /EN 12311-1	25%
ELONGATION (T)	ASTM D 5147 /EN 12311-1	22%
HYDROSTATIC RESISTANCE	ASTM D 5385 / EN 1928-1	Pass, watertight after 24 hrs under 6m of water
WATER ABSORPTION	ASTM D1228/ EN 1928	Pass , less than 1%
WATER VAPOR TRANSMISSION	ASTM E 96 / EN ISO 12572	≤0.5 g/m ² /24hr
DIMENSION STABILITY	ASTM D 5147 / EN 1107-1	Stable at 100°C
FLOW RESISTANCE IN VERTICAL AT 90°C	ASTM D 5147 /EN 1110	≤0.5 mm
AGEING	ASTM D 4799 / EN 1297	No signs of deterioration
VOC		<150 ppm
CHEMICAL RESISTANCE	Membranes are resistance to chloride, sulphate and phosphate found in ground water	
REACTION TO FIRE	EN 13501-1	Euroclass F

This product data sheet supersedes all previous data publication pertaining to this product
Variation of ±5% in thickness, ±10% in weight, and 20% in tensile and 15% in elongation is acceptable according to ASTM and EN13969 standards
Aiwin reserve the right to change said values without advance notice but without affecting the quality of the product



AIWIN
Arab Italian Waterproofing & Insulation Industries Co. W.L.L

الشركة العربية الإيطالية
لصناعة المواد العازلة

Showroom

Tel: +962 (6) 5332145

Fax: +962 (6) 5332146

P.O.Box 960525 Amman 11196 Jordan

E-mail: info@aiwin-jo.com

www.aiwin-jo.com