



ALPHA GUM

FIBERGLASS REINFORCED ROOFING AND WATERPROOFING FELT



Description:

ALPHA GUM is fiberglass bituminous base sheet felt saturated with bituminous compound for bonding with hot asphalt suitable as low cost membrane for many built-up roofing.

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, alkalis, sulfate and chloride
- 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:

- 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** or **AIWIN PASTA-3** 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	EN 1848-1	1 X 10m ± 1%
SURFACING		PE film or colored slates
REINFORCEMENT	BS747	60g/m ² fiber glass
THICKNESS ± 5%	ASTM D 5147 / EN 1849-1	1,2 mm
MEMBRANE WEIGHT	ASTM D 5147	1,2 Kg/m ²
PENETRATION at 25°C, dmm	ASTM D 5	15 ±10
SOFTENING POINT °C	ASTM D 36	100 ±10%
COLD FLEXIBILITY	ASTM D 5147 / EN 1109	0°C
TENSILE STRENGTH(L)	ASTM D 5147 / EN 12311-1	150 N/5 cm
TENSILE STRENGTH(T)	ASTM D 5147 / EN 12311-1	150 N/5 cm
ELONGATION (L)	ASTM D 5147 / EN 12311-1	3%
ELONGATION (T)	ASTM D 5147 / EN 12311-1	3%
HYDROSTATIC RESISTANCE	ASTM D 5385	Watertight after 24 hrs under 6m of water
WATER ABSORPTION	ASTM D 5147	Less than 1%
WATER VAPOR TRANSMISSION	ASTM E 96	≤0.5 g/m ² /24hr
DIMENSION STABILITY	ASTM D 5147 / EN 1107-1	Stable at 70°C
FLOW RESISTANCE IN VERTICAL AT 90°C	EN 1110	≤0.5 mm
AGEING	ASTM D4799 / EN 1848-1	No signs of deterioration
VOC		<50 ppm
CHEMICAL RESISTANCE		Membranes are resistance to chloride salts, sulphate and phosphate found in ground water

This technical data complement to ASTM, B.S, and UEAtc.

This product data sheet supersedes all previous data publication pertaining to this product.

All values given refer to standard production within the usual factory tolerance.

(Variation of ±5% in thickness, ±10% in weight, and 20% in tensile and 15% in elongation is acceptable according to standard).

Aiwin reserve the right to change said values without advance notice but without affecting the quality of the product.