



# STRONG GOLD

## App Modified Bitumen Membrane



### Description:

**STRONG GOLD** is a high-performance roofing membrane, specially formulated as prefabricated waterproofing system composed of selected distilled bitumen modified with premium polypropylene resin (APP+ IPP), and enhanced with antioxidant. The membrane is reinforced with a double layer system: non-woven polyester carrier combined with fiberglass mat, providing exceptional mechanical strength

The extra strength of **STRONG GOLD** makes particularly suitable for applications subject to expansion, contraction, and required heavy traffic resistance membranes

It should be noted that several international standards specify the use of double reinforcement with polyester and fiberglass mat - not because it is strictly essential for waterproofing - but because the non-woven polyester carrier used in strong gold offers excellent mechanical properties. These characteristics allow the membrane absorb abnormal stresses transferred from the structure while also providing added protection shocks and damage during handling, and transportation

### Features:

- Resistance to ageing
- Stable at high temperatures
- Flexible at low temperatures
- Ideal for bridges and road waterproofing
- High resistant to traffic
- Strong adhesion
- Resistant to puncturing
- Resistant to organic salts and acids: inorganic acids and to dilute alkalis at ambient temperature

### Application:

**STRONG GOLD** can be applied:

- By a propane torch
- By cold adhesive
- Mechanically fastened according to different recommended specifications, can be applied to the deck.
- Fully bonded
- Spot bonded
- Loose laid
- Starting at the low point of the roof surface, set the roll in the course to be followed and unroll half of the roll where practical. Position the membrane to provide a 10 cm side lap and a 10 cm end lap. Using the propane torch, the flame should be moved from side to side and the membrane slowly unrolled while pressing onto the underlying surface. As the surface of the roll is heated, it will develop sheen. The generation of heavy smoke is an indication that the surface is overheated.
- All roof decks must be smooth, moisture and dust free, asphalt primed.

### Membrane Protection

AIWIN strongly advise that when the membrane is left directly exposed to the open air, a metallic or light colored paint must be applied to create an energy saving reflective surface.

### Storage

**STRONG GOLD** must be correctly stored vertically in a dry location and to prevent their becoming deformed or damaged, all rolls must be stored on end and not double stacked.

### Transportations

Handle with care avoiding overlapping or stacking of rolls / pallets.



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### TECHNICAL SPECIFICATIONS

CHARACTERISTICS	STANDARD	VALUES	
		180g/m <sup>2</sup> of polyester / + 80 g/m <sup>2</sup> fiberglass	200g/m <sup>2</sup> polyester / + 80 g/m <sup>2</sup> fiberglass
ROLL DIMENSION	ASTM D5147 / EN 1848-1	1 X 10m ± 1%	1 X 10m ± 1%
SURFACING	BS747	PE film or colored slates (white ,Gray,Red,Green ) or Aluminum foil	
REINFORCEMENT	ASTM D6222 / BS747	180g/m <sup>2</sup> of polyester / + 80 g/m <sup>2</sup> fiberglass	200g/m <sup>2</sup> polyester / + 80 g/m <sup>2</sup> fiberglass
THICKNESS ± 5%	ASTM D 5147 / EN 1849-1	3,4,5 mm	3,4,5 mm
MEMBRANE WEIGHT	ASTM D 5147 / EN 1849-1	3,4,5 Kg/m <sup>2</sup>	3,4,5 Kg/m <sup>2</sup>
PUNCTURE RESISTANCE @ N	ASTM D 5147 / EN12691	Not perforated at ≥25 kg Class L4	
PENETRATION at 25°C, dmm	ASTM D 5/ EN 1426	20 ±5	20 ±5
SOFTENING POINT °C	ASTM D 36 / EN 1427	150 ±5	150 ±5
COLD FLEXIBILITY	ASTM D 5147 / EN 1109	- 8 °C	- 10 °C
TENSILE STRENGTH (L)	ASTM D 5147/ EN 12311-1	900 N/5 cm	1050 N/5 cm
TENSILE STRENGTH (T)	ASTM D 5147/ EN 12311-1	850 N/5 cm	1000 N/5 cm
ELONGATION (L)	ASTM D 5147/EN 12311-1	45%	50%
ELONGATION (T)	ASTM D 5147/EN 12311-1	45%	50%
TEAR STRENGTH (L)	ASTM D 4073 / EN 12310-1	380 N	400 N
TEAR STRENGTH(T)	ASTM D 4073 / EN 12310-1	340 N	360 N
HYDROSTATIC RESISTANCE	ASTM D 5385/ EN 1928-1	Watertight after 24 hrs. under 6m of water	
WATER ABSORPTION	ASTM D1228/ EN 1928	Pass, Less than 1%	Pass, Less than 1%
WATER VAPOR TRANSMISSION	ASTM E 96 / EN ISO 12572	≤0.5 g/m <sup>2</sup> /24hr	≤0.5 g/m <sup>2</sup> /24hr
DIMENSION STABILITY	ASTM D 5147 / EN 1107-1	Stable at 100°C	Stable at 100°C
FLOW RESISTANCE IN VERTICAL AT 90°C	ASTM D5147 / EN 1110	≤0.5 mm	≤0.5 mm
AGEING	ASTM D 4799 / EN 1297	No signs of deterioration	No signs of deterioration
VOC		< ppm 100	< ppm 100
CHEMICAL RESISTANCE	Membranes are resistance to chloride salts, 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