



AIWIN POLY FLEX S.B.S

Elastomeric Waterproofing to International Standards ISO 9001



AIWIN POLY FLEX is a high performance prefabricated waterproofing membrane especially formulated and composed of selected distilled bitumen modified with **S.B.S.** Polymer resin, antioxidant, but with strong reinforcing carrier of Non Woven polyester

AIWIN POLY FLEX s extra strength and flexibility can be considered of particular use in jobs subject to expansion and Contraction, such as, roofing, foundation works, basements, retaining walls, tanking where high flexibility is needed for shaping corners, edges etc.



AIWIN POLY FLEX SPECIAL FEATURES

- * Resistant to ageing
- * Stable at high temperatures
- * Strong adhesion
- * Chemically Stable
- * Resistant to puncturing
- * High malleability making it suitable for difficult foundation and basement works.
- * Resistant to organic salts and acids; inorganic acids and to dilute alkalis at ambient temperatures
- * Flexible at low temperatures
- * Compatible with most roofing products
- * Easy to apply even at sub zero temperature
- * Flashing made on the spot by using same membrane.

APPLICATION INSTRUCTIONS

AIWIN POLY FLEX can be applied:

- By a propane torch
- By cold adhesive
- Mechanically fastened

According to different recommended specification, 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 underlaying surface. As the surface of the roll is heated, it will develop a 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

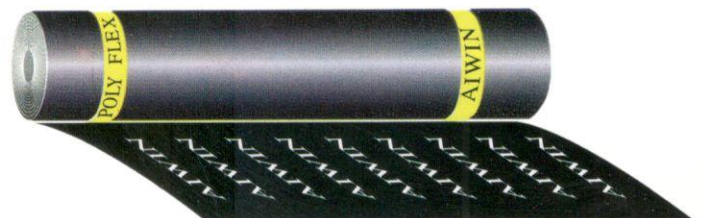
AIWIN strongly advises that when the membrane is left directly exposed to the open air, a metallic or light colored paint must be applied to create an energy saving reflective surface.

STORAGE

AIWIN POLY FLEX 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.

TRANSPORTATION

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



POLY FLEX

TECHNICAL SPECIFICATIONS



ISO 9001

CHARACTERISTICS	155 gr/m ² Polyester	180 gr/m ² Polyester	200 gr/m ² Polyester
ROLL DIMENSION - UNI 8202/3	1x10 m ± 1%	1 x 10 m ± 1%	1 x 10m ± 1%
SURFACING	(Talc+Burn-off film) or Slstes	(Talc +Burn-off Film) or Slates	(Talc +Burn-off Film) or Slates
THICKNESS - UNI 8202/6	3 , 4 , 5 ,mm	4 , 5 mm	4 , 5 mm
MEMBRANE WEIGHT - UNI 8202/7	≥ 3 , 4 , 5 Kg/m	≥ 3 , 4 , 5 Kg/m ²	≥ 4,5 Kg/m ²
STATIC PUNCHING STRENGTH - UNI 8202/11	L4 (not perforated at > 25 kg)		
PENETRATION ASTM-D5	DOW 25 dmm at 25°C	DOW 25 dmm at 25°C	DOW 25 dmm at 25°C
SOFTENING POINT -ASTM- D36C	≤ 110°C	≤ 120°C	≤ 120°C
COLD FLEXIBILITY - UNI 8202/15	≤ -10°C	≤ - 15°C	≤ - 20°C
TENSILE STRENGTH (L) - UNI 8202/8	650 N/5 cm	850 N/5 cm	900 N/5 cm
TENSILE STRENGTH (T) - UNI 8202 /8	550 N/5 cm	750 N/5 cm	800 N/5 cm
ELONGATION (L)- UNI 8202/8	40%	42%	50%
ELONGATION (T)- UNI 8202/8	45%	50%	55%
TEAR STRENGTH (L) - UNI 8202 /9	180 N	200 N	210 N
TEAR STRENGTH (T) - UNI 8202 /9	180 N	200 N	210 N
HYDROSTATIC RESISTANCE	Watertight after 24 hrs under 6m of water		
WATER ABSORPTION - UNI 8202/21,ASTM-570	Less than 0.14%	Less than 0.14%	Less than 0.14%
WATER VAPOR PERMEABILITY - ASTM-E 96	Absolutely Impermeable	Absolutely Impermeable	Absolutely Impermeable
DIMENSIONAL STABILITY - UNI 8202/17	Stable at 90°C	Stable at 90°C	Stable at 90°C
FLOW RESISTANCE IN VERTICAL AT 90°C UNI 8202/16	< 0.5 mm	< 0.5 mm	< 0.5 mm
AGEING - ASTM - G53	No signs of deterioration		
AIWIN Membranes are resistant to chloride, sulphates and phosphates found in ground water			

CAUTION

Roofing torches have been successfully used for many years, however since an open flame is present, all fire and safety precautions must be taken.

Note:

All values given refer to standard production, within the usual factory tolerances. AIWIN reserves the right to change said values without advance notice and responsibility but without affecting the quality of the product.



Submitted by: