



POLY GOLD

App Modified Bitumen Membrane



Description :

POLY GOLD is a high-performance prefabricated waterproofing membrane with extended cold flexibility, reinforced with 200 g/m² non-woven polyester. It can resist temperatures down to -10°C, and the membrane remains easily applicable even below zero

POLY GOLD is specially formulated from selected high-quality resins, Atactic Polypropylene (APP), thermoplastic and elastic copolymers, combined with the outstanding isotropic strength of its reinforcement

Features:

- Resistant to ageing
- Stable at high temperature
- Strong adhesion
- 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, basement, reservoirs, basins, canals, tunnel, dam, bridge and wet areas.

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** 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.

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 | 1x10m ± 1% |
| SURFACING | | PE film or colored slates (white ,Grey,Red,Green) or Aluminum foil |
| REINFORCEMENT | ASTM D6222 / BS747 | 200g/m ² Polyester |
| 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 L4 |
| PENETRATION at 25°C, dmm | ASTM D 5/ EN 1426 | 20 ±5 |
| SOFTENING POINT °C | ASTM D 36 / EN 1427 | 150 ±5 |
| COLD FLEXIBILITY | ASTM D 5147 / EN 1109 | -10°C |
| TENSILE STRENGTH(L) | ASTM D 5147 / EN 12311-1 | 900 N/5 cm |
| TENSILE STRENGTH(T) | ASTM D 5147 / EN 12311-1 | 800 N/5 cm |
| ELONGATION (L) | ASTM D 5147 / EN 12311-1 | 50% |
| ELONGATION (T) | ASTM D 5147 / EN 12311-1 | 50% |
| TEAR STRENGTH (L) | ASTM D 4073 / EN 12310-1 | 360 N |
| TEAR STRENGTH(T) | ASTM D 4073 / EN 12310-1 | 300 N |
| 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 D5147 / EN 1110 | Pass ≤0.5 mm |
| AGEING | ASTM D 4799 / EN 1297 | No signs of deterioration |
| VOC | | <150 ppm |
| 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