



APP Bitumen Membrane – Technical Specification

Product Description

APP Bitumen Membrane is a high-performance waterproofing membrane manufactured from **Atactic Polypropylene (APP) modified bitumen**, reinforced with polyester or fiberglass carrier. It is designed for waterproofing roofs, foundations, basements, retaining walls, bridges, and other construction applications requiring durability, heat resistance, and dimensional stability.

Technical Specification

Property	Typical Specification	Test Method
Product Type	APP Modified Bituminous Membrane	—
Reinforcement	Polyester / Fiberglass / Composite	—
Thickness	2 mm / 3 mm / 4 mm / 5 mm	EN 1849-1
Roll Width	1.0 m	EN 1848-1
Roll Length	10 m	EN 1848-1
Roll Area	10 m ²	—
Mass per Unit Area	Approx. 3–6 kg/m ² depending on thickness	EN 1849-1
Bitumen Modification	APP Modified Bitumen	—
Carrier Weight	160–250 g/m ² , depending on grade	—
Tensile Strength – Longitudinal	≥ 600 N/50 mm	EN 12311-1
Tensile Strength – Transverse	≥ 400 N/50 mm	EN 12311-1
Elongation – Longitudinal	≥ 30%	EN 12311-1
Elongation – Transverse	≥ 30%	EN 12311-1
Tear Resistance	≥ 150 N	EN 12310-1
Flexibility at Low Temperature	≤ -5°C	EN 1109
Flow Resistance at Elevated Temperature	≥ +120°C	EN 1110
Watertightness	Pass	EN 1928
Dimensional Stability	≤ 0.5%	EN 1107-1
Water Absorption	≤ 1%	Typical
Upper Surface	PE Film / Sand / Mineral Granules / Aluminum Foil	—
Lower Surface	Torchable PE Film	—
Application Method	Torch Applied	—



Available Thicknesses

APP bitumen membrane can typically be supplied in:

- **2 mm** – Light-duty waterproofing applications
- **3 mm** – General waterproofing
- **4 mm** – Roofing, foundations, and heavy-duty waterproofing
- **5 mm** – Heavy-duty roofing and infrastructure applications

Reinforcement Options

Polyester Reinforced: Provides higher tensile strength, elongation, puncture resistance, and flexibility. Recommended for roofing and areas subject to structural movement.

Fiberglass Reinforced: Provides excellent dimensional stability and is suitable for applications where lower elongation and high dimensional stability are required.

Composite Reinforced: Combines characteristics of polyester and fiberglass reinforcement for specialized waterproofing applications.

Surface Finish Options

APP Bitumen Membrane is available with different surface finishes according to application:

- **PE Film / PE Film** – For concealed waterproofing and multilayer systems
- **Sand / PE Film** – Suitable for bonding or additional waterproofing layers
- **Mineral Granule / PE Film** – UV-resistant exposed roofing membrane
- **Aluminum Foil / PE Film** – Reflective exposed waterproofing applications

Typical Applications

APP Bitumen Membrane is suitable for:

- Flat and sloped roofs
- Concrete roofs
- Foundations and footings
- Basements
- Retaining walls
- Underground structures
- Bathrooms and wet areas
- Terraces and balconies
- Bridges and civil engineering structures
- Parking decks
- Water tanks and selected hydraulic structures
- Industrial and commercial buildings

Installation

The substrate should be **clean, dry, smooth, and free from dust, oil, loose particles, and other contaminants**. A suitable bituminous primer may be applied before installation.

The membrane is normally installed using a **torch-on application**, heating the lower thermofusible film until the modified bitumen reaches the appropriate bonding condition.



Adjacent rolls should be installed with sufficient side and end overlaps according to project requirements and applicable installation standards.

Storage

Store rolls vertically in a **cool, dry, covered area**, protected from direct sunlight, excessive heat, moisture, and mechanical damage. Rolls should remain in their original packaging until installation.

Packing

- **Roll Width:** 1 meter
- **Standard Roll Length:** 10 meters
- **Standard Coverage:** 10 m²/roll
- **Packing:** Individually wrapped rolls
- **Palletizing:** Available upon request
- **Private Label / OEM Packing:** Available upon request

Note: The above values represent typical specifications for APP modified bituminous waterproofing membrane. Exact technical properties may vary depending on membrane thickness, reinforcement type, carrier weight, surface finish, and project requirements. A product-specific Technical Data Sheet should be used for contractual specifications.