



PRODUCT DESCRIPTION

PV440 is a prefabricated waterproofing membrane made of APP-modified bitumen, designed for bituminous waterproofing systems, either as an underlayer or as a protected top layer.

The membrane has a dual-reinforced design, combining:

- a 100% non-woven polyester reinforcement providing good mechanical strength and good dimensional stability,
- and a second glass fibre reinforcement contributing to thermal stability and resistance to temperature variations.

Both faces are coated with a heat-fusible high-density polyethylene (HDPE) film, ensuring clean and reliable installation by torch welding.

PV440 is intended for waterproofing flat roofs and structures requiring a high-performance and durable solution.

FIELDS OF APPLICATION

The PV440 membrane is intended for bituminous waterproofing systems, both as an underlayer and as a protected top layer.

It is particularly suited to multilayer systems, where it ensures the continuity and performance of the waterproofing assembly.

When used as a top layer, it must be protected from UV radiation by an aluminium-based paint or by heavy protection (gravel, paving slabs, etc.).

It can be used in new construction as well as in renovation and refurbishment of existing waterproofing assemblies.

Main applications:

- Accessible and non-accessible flat roofs
- Waterproofing of industrial and commercial buildings
- Refurbishment of existing waterproofing
- Underlayer in multilayer bituminous waterproofing systems
- Top layer protected by aluminium paint
- Technical terraces and covered car parks
- Buried structures and wet areas

ADVANTAGES

Thanks to its dual-reinforced structure and APP-modified bitumen formulation, the PV440 membrane offers good mechanical strength and good durability in protected waterproofing systems.

Its heat-fusible HDPE film on both faces ensures clean installation, uniform adhesion and good compatibility with the other bituminous membranes of the system.

Key advantages:

- Good mechanical strength
- Good dimensional stability
- Good ageing resistance
- HDPE film on both faces, compatible with all bituminous systems
- Simple and fast installation by torch welding
- Good adhesion on substrates prepared with a suitable primer
- Compatible with multilayer waterproofing systems
- Suitable for new construction and refurbishment
- Versatile: can be used as an underlayer or as a protected top layer

PRODUCT CHARACTERISTICS

Characteristic	Value	Standard
Bitumen type	APP	—
Reinforcement	Dual-reinforced: non-woven polyester + glass fibre reinforcement	—
Top face finish	Heat-fusible HDPE film	—
Bottom face finish	Heat-fusible HDPE film	—
Thickness	3.2 mm	EN 1849-1
Mass per unit area	4 kg/m ²	EN 1849-1
Roll width	1 m	—



Characteristic	Value	Standard
Roll length	10 m	–

TECHNICAL PERFORMANCE

Property	Value	Standard
Longitudinal tensile strength	≥ 630 N / 5 cm	EN 12311
Transverse tensile strength	≥ 480 N / 5 cm	EN 12311
Longitudinal elongation	≥ 33 %	EN 12311
Transverse elongation	≥ 33 %	EN 12311
Softening point (Ring & Ball)	≥ 140 °C	EN 1427
Cold flexibility	< +5 °C	EN 1109
Heat resistance	≥ 140 °C	EN 1110
Watertightness	Compliant	EN 1928
Water absorption	null	EN 1928

INSTALLATION

The substrate must be clean, dry, stable and compliant with the applicable professional waterproofing rules.

A suitable bituminous primer, applied at a rate of 300 g/m², is recommended to ensure optimal adhesion to the substrate.

The PV440 membrane is installed by torch welding, taking care to achieve uniform melting of the heat-fusible HDPE film and uniform adhesion over the entire surface.

Longitudinal and transverse laps must be carefully welded to ensure the continuity of the waterproofing assembly and to avoid any risk of water infiltration.

When the PV440 membrane is used as a top layer, protection against UV radiation is mandatory. It can be provided by:

- the application of an aluminium-based paint on the upper face,
- or the installation of heavy protection (gravel, paving slabs, asphalt, etc.).

Particular attention must be paid to the treatment of critical details, in particular:

- waterproofing upstands,
- flashings,
- expansion joints,

- rainwater outlets,
- pipe penetrations and technical protrusions.

These areas must be carried out in accordance with professional rules and good installation practice in order to guarantee the durability and effectiveness of the waterproofing system.

PACKAGING AND STORAGE

Packaging	Value
Roll dimensions	1 m × 10 m
Area per roll	10 m ²
Storage position	Vertical (upright)
Pallet stacking	Not permitted

Rolls must be stored in a vertical position, in a dry place, protected from bad weather, direct sunlight and heat sources.

Pallet stacking is prohibited in order to avoid any deformation of the rolls and any alteration of the product's characteristics.

LEGAL INFORMATION AND LIABILITY

The technical information given in this data sheet is provided for guidance only, based on the current state of our knowledge, laboratory tests and practical experience.



TUNISIE MEMBRANES

Technical Data Sheet

PV440

APP-modified bitumen waterproofing membrane, dual-reinforced, 3.20 mm, HDPE on both faces

The installation of waterproofing membranes must be carried out in accordance with the professional rules in force, the applicable standards and good trade practice. It is the responsibility of the user, the applicator contractor or the project supervisor to verify the suitability of the product for the intended use, the site constraints and the application conditions.

TUNISIE MEMBRANES cannot be held liable in the event of:

- misuse of the product,
- failure to comply with installation rules,
- application on a non-compliant substrate,
- inadequate storage,
- use not in accordance with the intended purpose of the product,
- or installation carried out under unsuitable conditions.

TUNISIE MEMBRANES reserves the right to modify the characteristics of its products at any time without notice, as part of the continuous improvement of its range.

CONTACT DETAILS

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