

IMPERMANTA

Asphaltic membrane modified with polymers and polyester structure

IMPERMANTA is a waterproof membrane based on polymer-modified asphalt, arranged in a polyester armature.

USES

Impermanta is recommended for waterproofing slabs, cold floors, terraces, balconies, gutters, curtains, girder beams, and as sacrificial layer in dual-layer systems.

ADVANTAGES

- Versatility in application – blowtorch or hot asphalt;
- Flexibility;
- A proper mix of different polymers allows **Impermanta** to be an option that combines quality with cost.

TYPICAL PROPERTIES

The properties listed below were obtained from laboratory testing. Testing values for new batches may present slight variations.

TESTS	RESULTS
Longitudinal tension	400 N
Transverse tension	230 N
Longitudinal elongation	25%
Transverse elongation	25%
Water absorption	1%
Low temperature flexibility	0 °C
Shock strength	2.45 J
Flowing	95 °C
Dimensional stability	1%
Flexibility after accelerated aging	10 °C
Tightness	10 mca
Tear strength	100 N

APPLICATION METHODOLOGY

Surface Preparation

The surface should be clean, dry and free of oils, greases and loose materials of any kind.

The surface should be leveled with cement and sand straight mortar at the ratio of 1:3, with minimum slope of 1% towards the drains. Sharp corners and edges should be rounded.

Emerging piping and drains must be rigidly fixed to ensure perfect finishing.

AVAILABLE IN THE FOLLOWING VERSIONS

FRAMING	Type II
ASPHALTIC MASS	C
THICKNESS	3 and 4 mm
FINISHING	AA and PP

AA – Sand/Sand

PP – Polyethylene/Polyethylene

STANDARD

NBR 9952

CONSUMPTION

0.115 RL/m²

SHELF LIFE

48 months.

The reels should always be shipped and stored vertically, far from heat sources, and avoiding surface and edges damages.

Store in a closed location, with good ventilation and at temperatures ranging from 5 to 30 °C.

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It is recommended to lower 1 cm deep around the drains, with diameter of 50 cm.

Waterproofing work should be carried out in baseboards with minimum height of 30 cm from the finished pavement, and embedded to a depth of 3 cm.

Application

Apply a coat of **Impermanta Primer** asphalt priming solution over a leveled and dry surface, and wait for drying.

Waterproofing must start from critical points, such as drains, expansion joints, etc.

For blowtorch application, point the flame to warm the reel lower part and the primed surface simultaneously.

For asphalt hot application, apply a coat of **Denver Poliasfalto** at 180-220 °C, using a spreader to help and, at the same time, unwind the **Impermanta** reel on a surface, making sure to allow some excess of asphalt in front of the reel.

When bonding, press **Impermanta** from the center to the edges, avoiding air bubbles from building up.

The overlap between two **Impermantas** should have at least 10 cm, taking the care required to allow a perfect adherence.

Mechanical Protection

Over **Impermanta**, apply a separating layer of bituminous Kraft paper or polyethylene film and carry out the mechanical protection.

The separating layer function is to avoid that the existing slab demands due to its use and the demands due to the mechanical protection mortar expansion and contraction impact directly on waterproofing.

After that, apply cement and sand mortar at the ratio of 1:4 or 1:5, with at least 3 cm of thickness.

When the mechanical protection is the final floor, mortar should be applied in 2 x 2 m squares with work joints with minimum width of 1 cm, and perimeter joints with minimum width of 2 cm, filled with mastic. Otherwise, only apply the perimeter work joints.

Mortar should mandatorily be set with galvanized screen in vertical or highly sloped surfaces.

PACKAGING

Impermanta is supplied in reels of 1 m wide and length of 10 m (3 and 4 mm), arranged in pallets with 20 reels (4 mm) and 25 reels (3 mm), wrapped in polyethylene film.

CLEANING

Clean equipment and tools with thinner or **Denversolvente 400**. If there is excess of asphalt in the tools, use the blowtorch flame to help you to remove it.

NOTES

Leveling mortar should be free of lime and/or hydrophobic products.

In **Impermanta** patches, it is recommended using a roll after the overlap, or beveling with the rounded tip of a spatula.

During **Impermanta** application, align the reel by fully unwinding it, and then rewinding it again.

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HANDLING AND SAFETY

- Handle with care, avoiding strong and sharp shocks of the reel against the floor, as well as contact with sharp or pointed surfaces. This procedure will avoid unwanted damages to the product, such as edge crushing, perforations, asphaltic mass damages, etc.
- Following safety regulations established by relevant bodies and wearing suitable PPE is recommended. Using specific creams as additional skin protection is recommended.
- In case of burns, do not try to clean it. Seek medical care.
- **For more information about handling and safety, request the product material safety data sheet (MSDS).**

TIGHTNESS TEST

After completing the waterproofing work, carry out the tightness test, keeping the frame with water for at least 72 hours to detect any failures in the process.

PERFORMANCE DENVER IMPERMEABILIZANTES

We guarantee the quality of our products against manufacturing defects; however we do not assume responsibility for the performance of the work, since we do not have direct control over the application conditions.

Any reimbursement shall be limited to the cost of the product.

We may alter the products whenever necessary, without prior notice.

The products should be applied by trained professionals and in compliance with the instructions listed in the application manuals provided by the company.

DENVER IMPERMEABILIZANTES

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