PREMIUM ALUMINUM POLYESTER

Asphaltic waterproofing membrane

DESCRIPTION

Asphaltic membrane produced by the physical modification of asphalts with polymers, structured with a non-textile of continuous filaments of pre-stabilized polyester. The exposed face of the membrane is finished with highly flexible, ozone-resistant aluminized sheeting, thus forming a sunlight-reflecting surface that guarantees the longevity of the asphaltic membrane.

TECHNICAL CHARACTERISTICS OF THE PRODUCT

Characteristics	Unit	Type II
Thickness	mm	3 & 4
Resistance to longitudinal & transversal traction (minimum)	N	400
Longitudinal and transversal elongation (minimum)	%	30
Water absorption (maximum)	%	1,5
Flexibility at low temperatures	°C	Class B = -5
Resistance to impact	J-Joule	4.90
Drooping from heat (minimum)	°C	95
Dimensional stability (minimum)	%	1
Flexibility after aging	°C	Class B = 5
Watertightness (minimum)	w.c.m	15
Tear resistance (minimum)	N	120

REFERENCE NORMS

- NBR 9952 – Asphaltic Membranes for Waterproofing (Applies to Type II – Class C)
- NBR 9575:2010 – Waterproofing – Systems & Projects
- NBR 9574:2008 – Execution of Waterproofing

UTILIZATION

Premium Aluminum Polyester is indicated as a waterproofing system and final finish for non-passable roofs: traffic-free concrete roofing slabs, sheds, domes, arched roofs, beams of different formats, concrete troughs/gutters, treatment for joints of pre-cast structures, corrugated or trapezoid pre-fabricated roofing, and thermal insulation systems.

For other uses consult the Technical Department (sac@viapol.com.br).

USAGE INSTRUCTIONS

Preparation of the surface

The surface must be previously washed, free of dust, sand, residues of oil, grease, release agent, and stains of any type of material/substance that may hinder adhesion of the product.
On the moist horizontal surface execute the regularization with a minimum trim of 1% in the direction of the water run-off points. The regularization mortar should be prepared with mortar of cement and medium sand, ratio 1:3, using kneading water composed of 1 volume of **Viafix** adhesive emulsion and 2 volumes

of water for better adhesion to the substrate. This mortar must be given an even finish with a minimum thickness of 2cm.
In the region of the drainpipes create a recess 1cm in depth, measuring 40 x 40cm, with beveled edges, so that the entire waterproofing will be level after executing the reinforcements to be made at this location.
All corners and edges must be rounded off with an approximate radius of 5cm to 8cm.
In the vertical masonry areas execute a roughcast of cement and medium sand, ratio 1:3, followed by application of well evened mortar of cement and medium sand, ratio 1:4, using kneading water composed of 1 volume of **Viafix** adhesive emulsion and 2 volumes of water.
In the entrance spans of buildings (doorways, frames, etc.),the regularization should advance a minimum of 60cm into the interior, under doorjambs and casings, respecting the trim to external areas, except in the case of internal areas with wood floors or floors subject to degrading from the action of moisture. It is recommended that external areas have an elevation at least 6cm less than internal elevations, both in the level of waterproofing as well as in the level of the finished flooring.
Dilatation joints should be treated as watersheds so as to avoid the accumulation of water. The seams should be clean and unobstructed, allowing for their normal shifting.
Drainpipes and other outcrop pieces should be adequately fixed to allow execution of finishing.

Application of the Product

On the dry regularized surface apply one coat of **Viabit, Adeflex or Ecoprimer** primer with a roller or broad brush and allow to dry for a minimum of 6 hours.
Align the **Premium Aluminum Polyester** asphaltic membrane according to the realignment of the area, then start the adhesion from the drainpipes towards the more elevated levels.
With the aid of a LPG gas blowtorch flame, proceed with the total adhesion of the **Premium Aluminum Polyester** membrane. The seams between lengths of membrane should have an overlap of 10cm and should be beveled to achieve a perfect seal.
Execute the membranes in the horizontal position, going up 10cm in the vertical.
Align and adhere the membrane in the vertical position, then descend and lay a 10cm overlap on the membrane laid in the horizontal position. In the vertical position the membrane should be adhered 30cm higher than the finished floor.
After the application of the asphaltic membrane, conduct the watertightness test, filling the waterproofed area with water and maintaining the level for a minimum of 72 hours.
After the watertightness test apply two coats of aluminum paint along the beveling line (seams between the strips of membrane).

CONSUMPTION

Asphaltic membrane: 1.15 m² of area, considering overlaps and losses from cutouts of edges.
Primer: 0,40 l/m²

FINISH OF MEMBRANE

Upper face exposed to inclement weather: lined with flexible aluminized sheeting.
Lower face, to be adhered to structure: lined with polyethylene film removable with blowtorch flame.

PACKAGING / STACKING

Spools 1m in width containing 10m of membrane:
Pallets with 30 spools of 3mm membrane – 300 m²;
Pallets with 25 spools of 4mm membrane - 250 m²;

Pallets should be stacked as recommended to avoid collapse of the stack and damage to the products.

Stack the product vertically on pallets, avoiding contact of product with the floor.

Do not stack the product against walls or partitions.

Stack up to 2 pallets, with the second pallet resting on Madeirit for better distribution of the weight.

VALIDITY / STORAGE

5 years from date of manufacture.

Store the product in the vertical position, in the original intact packaging, in a covered, dry ventilated location, far from sources of heat.

SAFETY RECOMMENDATIONS

Prior to starting work consult the SISCP (Safety Information Sheet for Chemical Products) of the products.

Due to high temperature application, use adequate clothing and PPE - (respirator, split leather gloves, boots, over-sleeves, leggings, apron and safety eyewear), keeping the area ventilated until the product has dried completely.

In closed/indoor areas it is imperative to use forced ventilation and semi-facial mask equipped with a filter adequate for organic vapors.

When a blowtorch is used for applying the waterproofing system in a closed/indoor area, we recommend that the gas cylinder be kept away from the work area for greater safety.

ENVIRONMENTAL PRECAUTIONS

Dispose of materials in an appropriate location in accordance with regulations based on local environmental legislation in force.

FIRST AID

Consult the SISCP of the products.

In case of contact of hot product with the skin, cool the area immediately with cold water, until the product cools and hardens, then cover the burnt region and seek medical assistance.

In case of intoxication by inhalation, move the victim to a well ventilated location and immediately seek medical assistance.

In case of contact with the eyes, wash copiously with potable water and seek medical assistance.

In the eventuality of irritation of the eyes or skin, or ingestion of the product, consult a doctor, stating the type of product involved.

For further details consult the catalogues of the following products: **Viafix**, **Adeflex**, **Viabit**, **Ecoprimer.**

Note: The information contained in this datasheet is based on our best knowledge, and is provided for your help and guidance. We need to point out that the performance of our products depends on the preparation conditions of the surface and the storage and application of the product, factors not subject to our control. The consumption of the product depends on the application technique, the condition of the equipment used, and the surface to be coated. We do not, therefore, accept any responsibility of any nature regarding the consumption and performance of our products arising from inadequate storage or use of the product. For further clarification please consult our Technical Department.

Viapol reserves the right to alter the specifications and/or the information contained in this datasheet without prior notice..