

MONNELI COLBETOMO APP

APP Modified Bitumen Waterproofing Membrane

Product Description

An atactic polypropylene (APP) modified bitumen waterproofing membrane with non-woven spun-bond polyester or glassfiber reinforcement designed for general waterproofing applications.

Uses

COLBETOMO APP is ideal for general use in single or multi-layer systems such as:

- Low slope concrete roofs
- Balconies
- Multi-storey car parks
- Lining sewage canals
- Basements and subgrade structures
- Any concrete or flat surface that requires waterproofing.

Advantages

- Flexible at low temperatures and stable at high temperatures
- High tensile strength and elongation
- Impermeable to water
- Durable
- Easy installation
- Manufactured to suit Middle East condition

Type of Finishes

- Smooth (Double) / Fine Sand: PNX, PNY, PNZ
- Mineral: PNX-M, PNY-M, PNZ-M
- Polyethylene film (available upon request)

Available Thickness

- 2mm
- 3mm
- 4mm
- 5mm

Instructions for Use

Surface Preparation

The surface to be waterproofed shall be sound, clean and uncontaminated, free from dust, nails or any deleterious matter.

Priming

A coat of ASFABIT must be applied to the concrete surface and must be allowed to dry completely before the application of the membrane.

Application

COLBETOMO APP membrane are installed by torch welding. The membranes are laid over the area they are to be fixed overlapping each other by at least 10cm. Lap joints should shed water towards the drains. Without changing the orientation, roll back the membrane. Unroll the membrane once again and heat the underside properly to allow the surface to melt. End laps should be from 12 - 15cm. COLBETOMO APP should be heated from the top to create a thin bead of molten bitumen at the seam. Using a trowel, smoothen the surface to ensure a properly welded joint.

Exposed Roofing Application

COLBETOMO APP mineral membranes which are manufactured with self-protecting layer of natural slates are used for exposed applications, roofing and skirtings.

Scrape off 15cm of mineral flakes or press in the slate and expose the bitumen by heating 15cm of the mineral surface sufficiently to make end of roll joints. Next roll will be torched on the exposed bitumen area.

Recommendations

- Avoid excessive and uneven application of heat.
- It is recommended to use protective gloves during installation.

Technical Data

Properties	Test Method
Weight (kg/m ²)	3 to 6
Thickness (mm)	2 to 5
Roll length (m)	10
Roll width (m)	1

Properties		Test Method	Results
Softening point (Ring and Ball)		ASTM D-36	≥150
Elongation at break	Longitudinal (%)	EN-12311-1	≥40
	Transverse (%)	EN-12311-1	≥40
Tensile strength	Longitudinal (N/50mm)	EN-12311-1	≥950
	Transverse (N/50mm)	EN-12311-1	≥700
Tensile tear strength	Longitudinal (N)	ASTM D-5147, D4073	≥700
	Transverse (N)	ASTM D-5147, D4073	≥500
Tearing strength	Longitudinal (N) (Nail shank)	EN-12310-1	≥270
	Transverse (N) (Nail shank)	EN-12310-1	≥270
Impact resistance (mm)		EN 12691 Method B	≥600
Resistance static to loading (kg)		EN 12730 Method A	≥20
Flow resistance at elevated temperature (°C)		EN-1110	≥100
Flexibility at low temperature (°C)		EN-1109	5
Dimensional stability (%)		EN-1107-1	±0.5
Water impermeability	Low pressure (60KPa)	EN-1928 Method A	Passed
	High pressure (KPa)	EN-1928 Method B	≥200
Water absorption (%)		ASTM D-5147	<1
Vapour permeability (μ)		EN-1931	20000
Shear resistance of joints	Longitudinal (N/50mm)	EN-12317-1	≥950
	Transverse (N/50mm)	EN-12317-1	≥700
Resistance to root penetration		EN 13948	NPD

All values are subject to 5-10 % tolerance

Packaging

COLBETOMO APP is supplied in rolls.

Available in 2mm, 3mm, 4mm and 5mm

Roll Dimension: 1m x 10m

Storage

COLBETOMO APP must be stored in a well ventilated, covered storage area away from any source of direct heat. Rolls must be kept in an upright position at all times. Shelf life is 12 months from the date of production if stored properly in original unopened packing.

Health & Safety

COLBETOMO APP have no health hazard when used with our standard application recommendations.

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