AquaArm Tarmat-P

(Formerly known as MYK Tarmat)

APP modified Reinforced Bituminous Waterproofing Membrane

MYK arment®

TECHNICAL DATA SHEET

Product Description

AquaArm Tarmat-P is a uniquely formulated, pre-fabricated, plastomeric waterproofing membrane that is developed by modifying bitumen with APP polymer; with a homogenous thermoplastic bituminous blend of distilled asphalt, modified with selected high grade APP (Atactic Polypropylene) polymer and inert fillers which gives the membrane its excellent properties of resistance to ageing, facilitates the ease of application and adhesion and accommodates structural movements. The membrane conforms to the requirement of ASTM Standards (ASTM D 5147).
Confirms BS 8102: 2009 & IS 16471: 2017 Type A waterproofing system

Uses

- Foundation / Basement under slab application
- Foundation wall
- Pile-cap and beam
- Roofs, Terraces
- Landscaped Podium Decks, Roof Gardens, Planter Boxes
- Earth covered structure, Open-Cut Tunnels
- Water ponds

Features and Benefits

- Excellent heat & water proofing properties
- Does not need water, lime or water pressure to react
- Ground chemical resistant
- Durable before and after installation
- Slated membranes resists foot traffic immediately after application
- No complimentary self-adhesive tape necessary

Application Method

Step no 1: Surface Preparation:

The surface to be waterproofed must be completely clean & free of dust, oil, protruding nibs etc. Clean the surface using wire brush, or mechanical cleaning. Pond test the substrate to identify the cracks and leaks and grout the same with either low viscous epoxy grout **ArmGrout Inject EP** or cementitious grout additive **ArmGrout Additive.** Cove the wall-floor corners with 50mmX50mm fillet by using C:M 1:3 by admixing **AquaArm IWP10**asper the recommendation of dosage. All the construction/expansion/lift joints if any, are to be treated as per the methodology recommended by our team.

Ste**p no 2: Priming:**

On a completely dry substrate apply a coat of **AquaArm TarPrimer**- a solvent base bituminous primer @ 0.3-0.4kgs/sqm, dosage varies depending on the surface conditions. The primer must be allowed to dry completely before application of the membrane.

Step no 3: Membrane Application:

AquaArm Tarmat-P is applied by torch welding the underside of the membrane. The membrane rolls are lined up & spread open over the area subjected to application, starting at the lowest point on a roof-deck. The rolls are laid carefully to maintain at least 75 mm overlaps at sides and 100mm overlaps at ends. Joints should shed water towards drains. The membrane is then rolled back without changing the given orientation. They are then unrolled once again while heating the underside sufficiently to cause surface melting. End laps should be a minimum 100 mm. Avoid excessive and uneven application of heat. The lap joint should be heated from the top to produce a thin bed of molten bitumen at the seam; the bead is then smoothened out with the trowel, ensuring a properly welded joint. The membranes shall be finally coated with Bituminous Aluminium Paint for non-trafficable roofs or shall be protected with screed of avg.75mm thickness /tiles looselylaid or fixed. When being applied at terraces/podiums/below grade application or any other horizontal application being done, the membrane needs to be taken min 300mm above the FFL on the verticals and to be terminated either in grooves or by using aluminium termination bar.

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Technical Data

Properties		Typical Values				Test Standards
	1.5mm	2mm	2mm	3mm	4mm	
Core	HMHDPE	HMHDPE	Polyester	Polyester	Polyester	
Reinforcement film GSM (g/m²)	90 mic	100 mic	140	160	180	
Roll length (mtr)	20	10	10	10	10	EN 1848-1 (1999)
Roll Width (mtr)	1	1	1	1	1	EN 1848
Thickness (mm)	1.5	2	2	3	4	EN 1848
Coating Asphalt	APP Polymer modified Asphalt	APP Polymer modified Asphalt	APP Polymer modified Asphalt	APP Polymer modified Asphalt	APP Polymer modified Asphalt	-
Softening point (°C)	>120	>120	150±5	150±5	150±5	ASTM D-36
Penetration @25°C (dmm)	>25	>25	20±5	20±5	20±5	ASTM D-5
Low temperature cold flexibility @ 0 to -5°C	No crack	No crack	No crack	No crack	No crack	ASTM D-5147
Heat resistance @ 135°C	@100^{0}C for one hour – Does not drip	No flow	No flow	No flow	No flow	ASTM D-5147
Tensile strength (L/T) (N/5cm)	100±20	140/120	650/400	760/560	820/650	ASTM D-5147
Elongation at Break (L/T) (%)	300±50	>300/300	>35/50	>35/50	>40/50	ASTM D-5147
Tear resistance (L/T) (N)			>300/200	>300/200	>350/250	ASTM D-5147/ ASTM D-4073
Puncture resistance (N)			>450	>475	>475	ASTM E-154
Resistance to Static / Dynamic			Static- L_3/Dynamic -I_3	Static- L_4 /Dynamic - I_4	Static- L_4 /Dynamic - I_4	UEAtc 5.1.9 / UEAtc 5.1.10
Lap Joint strength (N/5cm)			Same as membrane	Same as membrane	Same as membrane	EN 12317
Water absorption %wt.@ 23°C (24hrs)			< 1	< 1	< 1	ASTM D-5147
Impermeability to water			Pass	Pass	Pass	EN 1928
Dimensional stability (%)			< 1	< 1	< 1	ASTM D-6222

The declared average values represent the best performance achieved by the product at the present state of our knowledge. In accordance to the standards 5-20% variation is expected.

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Packaging

AquaArm Tarmat- P comes in prefabricated rolls of following sizes:

1mX10m

Storage and Shelf Life

- Rolls must be kept up right in vertical position at all times in a covered well ventilated storage area away from sources of direct heat.
- Do not expose to direct sunlight, UV & other sources of heat.If ambient temperature at storage site fall below 15°C the rolls should be kept exposed to warmer temperature of 15°C to 40°C for periods up to 2 hours prior to use to facilitate unrolling of the membranes.
- AquaArm Tarmat-P has a shelf life of 12 months from the date of manufacturing, if stored in a cool dry store in original unopened packing.

Health & Safety

- AquaArm Tarmat- P due to presence of sticky compounds the membranes can stick to human skin during the process of torching..
- Use soft cloth dipped in a suitable cleaner to remove sticky compound.
- Inhalation must be avoided and the use of protective clothing, rubber gloves, goggles and barrier cream is recommended.
- After work clean hands with soap and warm water or suitable mild detergent.
- Refer material safety data sheet for more details.

Product Categories Available

Legal Note

MYK Arment Private Limited.
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