



APP

Plastomeric Modified Bitumen
Waterproofing Membrane

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APP Plastomeric Modified Bitumen Waterproofing Membrane

Joaboa tech use advanced equipment to produce APP Plastomeric Modified Bitumen Waterproofing Membrane which is made of bitumen modified as dipping and painting. Its upper surface covers PE membrane and color sand or mineral, and lower surface is made of isolation material. Products correspond to the national standards GB 18243-2008(Plastomeric modified bitumen waterproofing membrane).

PRODUCT FEATURE

- ◇ Excellent high temperature and low temperature resistance, especially high temperature resistance
- ◇ Excellent weather resistance, corrosion resistance and easy to install
- ◇ Excellent Comprehensive Physical Properties
With excellent feature such as low temperature flexibility and high temperature resistance, fatigue resistance, corrosion resistance, aging resistance, long service life, and heat and cold region both can be used.
- ◇ Stable Dimension
After many times daub, production process has higher requirements, enhancing the membranes' dimension stability.
- ◇ Wide Adaptability of Facing Material
Facing materials contain: PE film surface, color sand surface, schistsurface and other traditional product. Other type surfacescan also be available according to the customer request.



DESCRIPTION

The APP plastomeric modified bitumen waterproofing membrane is made up of high-quality asphalt with polypropylene or polyolefin polymer modified resin. It is made up into high polymer modified asphalt material by special process, built-in reinforced polyester, and covered with various surface materilas.



APPLICATION RANGE

Mainly application for the basements, roofs and other parts of industrial and civil constructions.



PRODUCT SORT

- ◇ Divided into I type and II type as physics performance
- ◇ Matrix: PY,G and PYG
- ◇ Upper surface material: PE film, color sand and mineral.

SPECIFICATIONS

Thickness (mm)	Width (mm)	Length (m)
3	1000 、 2000	15
4	1000 、 2000	10
5	1000 、 2000	7.5

PS : Other sizes need to be customized.

Physical Performance : Executive GB 18243-2008

No.	Item		Requirement
1	Mass per unit area, kg/m ²		≥5.0
2	Area, m ² /roll		7.5±0.10
3	Thickness, mm	Average thickness	≥4.2
		Minimum thickness	Minimum value 4.0
4	Appearance	Outor in length, mm	≤10
		Sheet surface situation	The reinforced base should be saturated, and there should no saturated parts. The surface should be even, and there are no holes, lack of edge, split, and pimple.
		Opened sheet	There should be no cracks or caking over 10mm, 1000mm away from roll core, when spreading under every temperature (4~50℃)
		Joint	The amount is not over 1, and the length of shorter piece should be over 1000mm. The joints should be even, and be extended 150mm.
5	Soluble Content, g/m ²		≥2900
6	Heat Resistance	130℃ slip, mm	≤2, customized according to the client requirement
		Uppersurface Lowersurface testing phenomenon	
7	Low Temperature Flexibility		-15℃, no crack
8	Water tightness, 30min		0.3MPa
9	Solar reflect, % (GJB2502.2)		≥70
10	Tensile Strength	Maximum tensile strength, N/50mm	≥800
		Longitudinal Transversal testing phenomenon	There is no bitumen coating crack in the middle of the testing sample, or separating phenomenon with reinforced layer during stretch
11	Elongation	Elongation at Maximum Tension, %	≥40
		Longitudinal Transversal	
12	Mass increases after immersion in water, %	PE, S	≤1.0
13	Thermal Aging Test	Retention Rate of Tensile Strength, %	≥90
		Retention Rate of Elongation, %	≥80
		Low Temperature Flexibility	-10℃, no cracking
		Dimension Change Rate, %	≤0.7
		Mass loss	≤1.0
14	Oil Permeability	Layer of Papers	≤2
15	Joint Peel Resistance, N/mm		≥1.0
16	Thickness of Asphalt Coating of Lower Surface, mm		≥1.0
17	Artificial ageing	appearance	No slipping, no flowing, no dripping
		Retention Rate of Tensile Strength, %	≥80
		Longitudinal Transversal Low Temperature Flexibility	-2℃, no cracking

STORAGE AND TRANSPORTATION

1. Different types and specifications of the product should be piled up respectively, not be mixed.
2. Avoid sun and rain, pay attention to ventilation. Storage temperature should not be higher than 50°C.
3. Membranes should be flat during transport and storage, flat stacking height not more than four levels. Prevent tilt or pressure during transportation, sealed by the felt cloth if necessary
4. Under the normal storage and transport conditions, storage period is one year from the date of production.



Operation Method: Hot Melting Apply to Dry Substrates

◇ Technology Process

Clean up substrates ---spread on substrates treatment ---joint processing--- spread width waterproof (use hot melting adhesive) membrane---membrane overlap---processing handover

◇ Substrate Condition

Substrates concrete curing to the stipulated age, and comply with the design and specification requirements.

Surface of base substrates has clean up, smooth and dry.

Inside and exposed corners paint circular arc

◇ Substrate Dry Detection

Easy way: put 1 meter membrane on the substrate, after 3-4 hours take on, there is no water on the substrate and membrane, so it is OK for dry standard.

◇ Construction Method

Check up and clean up substrates.

Put the treating agent on the substrate widely, after drying, make the adhesion membrane baseline.

◇ Joint Treatment

Make strength level in the joint parts such as parapet, down pipe, tube root, cornice, inside and exposed corners, and these parts should comply with the design and specification requirements.

◇ Membrane Paving and Adhesion

Place the material together and be alignment, and then roll up the end of material, bake base of material continuous. When the material melting, forming gloss and black, and having a thin melting level, put the material on the substrate again, and then eliminates the air between the material and substrate, make adhesion material and substrate firmly. When one side of material fixed, roll up the other side, according to above method to melt and pave material, and eliminates the air between the material and substrate, make adhesion material and substrate firmly.

◇ Membrane Overlap

Use hot melting, make the part of membrane overlap adhesive firmly, it is better for overflow of modified bitumen on the overlap part.

◇ Complete the Spread and Paving of Membranes, Then Inspection and Acceptance



1. Treatment substrate 2. Paint substrate agent 3. Hot melting construction 4. hot material construction 5. Complete spreading and paving

Construction Attention

1. The substrate should be dry, strong and smooth.
2. Forbid to construct with snow, rain and 5 levels wind weather.
3. Put the safety facilities and fire equipment in the construction space.

TYPICAL PROJECTS

