



# WSBS

Width Elastomeric Modified Bitumen  
Waterproofing Membrane

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## WSBS Width Elastomeric Modified Bitumen Waterproofing Membrane

Joaboa tech use advanced equipment to produce 2 meters WSBS Width Elastomeric Modified Bitumen Waterproofing Membrane which is made of bitumen modified with Styrene-Butadiene-Styrene (SBS) as dipping and painting. Its upper surface covers PE membrane and color sand or schist, and lower surface is made of isolation material. Products correspond to the national standards GB18242-2008(elastomeric modified bitumen waterproofing membrane).

## PRODUCT FEATURE

### ◇ 2m width, Reduce Overlap

Compared with traditional membrane, it can reduce half lap seam, improve the globality of the waterproof level and reduce leakage hidden trouble.

### ◇ Simple and Efficient Construct, Greatly Saving Construct Period

Width membrane has feature of simple and efficient construct; huge package has special tools to construct fast.

### ◇ Advanced Production Line

Use USA ADI company imported production line, through advanced producing, quality are higher.

### ◇ 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.



## PREFACE

At present, modified bitumen membrane's usage has been the NO.1 stably in the waterproof project, and it will be applied widely in a long time in the future. However, in the protect apply, we find that the normal modified bitumen membrane has many overlaps which is an obvious weak link. Ensure the quality of waterproof level is to reduce overlaps and improve the whole of waterproof level.

Joaboa tech bring in the USA ADI company import production line, besides producing the nice 1m width modified bitumen membrane, it can produce high quality 2 meters width elastomeric modified bitumen waterproofing membrane (WSBS).

Compare with the normal modified bitumen waterproofing membrane, 2 meters width membrane can reduce almost half overlaps and material loss, and reduce the hidden danger of waterproof level weak link and leakage. Ensure the waterproof system that is reliable and improve the apply effect, reduce the material loss. It has excellent reliable and economical, and obvious improvement to traditional modified bitumen waterproofing membrane, with high cost performance.



# 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 schist.

# 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 GB18242-2008

No.	Item	Index					
		I		II			
		PY	G	PY	G	PYG	
1	Soluble matter content (g/m <sup>2</sup> )	3mm	2100			—	
		4mm	2900			—	
		5mm	3500			—	
		Experimental phenomena	—	Matrix incombustible	—	Matrix incombustible	—
2	Heat resistance	°C	90		105		
		≤mm	2				
		Experimental phenomena	No flowing, dripping				
3	Low temperature flexibility /°C		-20	-25			
			No crack				
4	Water-tightness 30min	0.3MPa	0.2MPa	0.3MPa			
5	Tension	Max tension / (N/50mm) ≥	500	350	800	500	900
		Second tension / (N/50mm) ≥	—	—	—	—	800
		Experimental phenomena	No asphalt coating cover crack or matrix separation of the specimen in stretching process.				
6	Elongation	Max elongation / % ≥	30	—	40	—	—
		Second elongation / % ≥	—	—	—	—	15
7	Quality increase after watering ≤	PE、S	1.0				
		M	2.0				
8	Thermal ageing	Tension of protection / % ≥	90				
		Extension of retention / % ≥	80				
		Low Temperature Flexibility / %	-15	-20			
		Dimension change rate / % ≤	0.7	—	0.7	—	0.3
		Quality loss / % ≤	1.0				
9	Oil permeability	Per	≤ 2				
10	Peel strength with seam / (n/mm)	≥	1.5				
11	Nail rod tear strength <sup>a</sup> /N	≥	—			300	
12	Mineral aggregate adhesion <sup>b</sup> /g	≤	2.0				
13	The asphalt coating thickness of under surface of <sup>c</sup> /mm	≥	1.0				
14	Artificial climate accelerated aging	Appearance	No sliding, flowing, dripping				
		Tension / % ≥	80				
		Low temperature flexibility / %	-15	-20			
			No crack				

- a. Only applicable to single level mechanical fixed membrane construction.
- b. Only applicable to mineral aggregates surface of membrane
- c. Only applicable to hot melting membrane construction.

# 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. Width membrane 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

