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## APP Bitumen Waterproofing Membrane

APP Torch Applied Waterproofing Membrane is a kind of torch on application modified bitumen membrane manufactured by using advanced Germany technology and direct mixing process. Select APP (APP – Atactic Polypropylene is used to improve the properties of the distilled bitumen basis. Provides heat and UV resistance required for our climate.) or APAO, APO (polyolefin polymer) modified asphalt as dipping material, reinforced with polyester felt, glass fiber felt and glass fiber reinforced polyester felt, surface covered with fine sand, mineral grain (sheet) material, PE film, refined by advanced technology plastic modified bitumen waterproof membrane. It is widely used in the basement and rooftop waterproofing works with advanced performance.

Basic Specification				
Reinforced Layer	Thickness (mm)	Width (mm)	Surface	Torching side
Polyester felt (PY)	3 / 4	1000	Polyethylene (PE)	Polyethylene (PE)
Fiberglass felt (G)	3 / 4		Fine Sand (S)	
			Mineral aggregate (M)	

Hot sell models

### 3.0mm Combined reinforced APP Bitumen Membrane

A 3.0mm (nominal) thick combined reinforced (polyester & fibreglass) APP modified bituminous torch applied membrane. It is used as a base or mid layer in a multi-layer bituminous membrane system.

### 4.0mm Mineral Coated APP Bitumen Membrane

A 4.0mm (nominal) thick combined reinforced (polyester & fibreglass) APP modified bituminous torch applied membrane with a mineral slate finish. Designed as a cap layer in exposed membrane systems. Available in grey only.

### Product Feature

1. Good elasticity, high tensile strength and elongation, good high temperature flexibility, good wear resistance.
2. Excellent water impermeability and temperature adaptability. APP is suitable for building waterproofing in lower temperature environments.
3. Good corrosion resistance and aging resistance, anti-puncture resistance, mildew resistance, impact resistance, pressure resistance, long service life.
4. Easy to operate and maintain, and ensure the construction quality.
5. Specially designed for hot asphalt or heat welding(with burn-off polyethylene)applications. heat welding lap joints are durable, reliable, and tight.

### Application Scope

1. Suitable for waterproofing and moisture proofing of roofs, basements and industrial cold storage as well as civil building structures.
2. Waterproofing for water conservancy projects, swimming pools, bridge decks, subways, tunnels, sewage treatment plants, landfills, etc.
3. It can also be used for anti-corrosion and various moisture-proof interior packaging materials of underground pipelines.

#### Transportation & Storage

1. There should be a dedicated warehouse stacking and the warehouse must be ventilated to avoid light exposure, non-fire sources, and fire prevention.
2. When stacking in temporary warehouses on the construction site, coverings must be covered to avoid sun and rain. When transporting, the membranes should be stacked tightly and the membranes cannot be stacked on each other to prevent the sheet from tilting or lateral pressure. The storage temperature should be not higher than 50°C, the storage period is one year from the date of production, and it can still be used if it is qualified.

#### Working Advice

If there is any snow, water or frost on the ground of the operation, must stop construct. If it is necessary to work under negative temperature, measures should be taken to ensure that the waterproof layer after laying is not cracked or sticky. During the construction, the air needs to be squeezed by hand to avoid bulging. When handling, take it upright and place it upright. The height must not exceed two layers. Prevent tilting or lateral pressure. Do not drop it and avoid damage.

#### Technical Data Sheet

Technical Data Sheet				
S/N	Test items		Test Value	
			PY	G
1	Soluble content	3mm	$\geq 2100 \text{ g/m}^2$	
		4mm	$\geq 2900 \text{ g/m}^2$	
		5mm	$\geq 3500 \text{ g/m}^2$	
2	Heat resistance		110°C, $\leq 2\text{mm}$ No flow, no dripping	
3	Low temperature flexibility		-7°C, No crack	
4	Impermeable (30min)		0.3Mpa	0.2Mpa
5	Tension	Maximum peak tension	$\geq 500\text{N}/50\text{mm}$	$\geq 500\text{N}/50\text{mm}$
		Results	No cracking	
6	Elongation rate	Maximum peak elongation	$\geq 25\%$	
		Second peak elongation	-	
7	Increased quality after soaking	PE/S	$\leq 1.0\%$	
		M	$\leq 2.0\%$	
8	Thermal aging	Rally retention rate	$\geq 90\%$	
		Elongation retention rate	$\geq 80\%$	
		Low temperature flexibility	-2°C	
			No crack	
		Size change rate	$\leq 0.7\%$	-

		Loss of quality	$\leq 1.0\%$	
9	Joint peel strength		$\geq 1.0 \text{ N/mm}$	
	Mineral pellet adhesion		$\leq 2.0 \text{ g}$	
	The thickness of Bitumen cover layer on the downward covered surface of the membrane		$\geq 1.0\text{mm}$	
10	Artificial weather accelerated aging	Appearance	No sliding, flowing, dripping	
		Rally retention rate	$\geq 80\%$	
		Low temperature flexibility	-2 °C No crack	-10 °C No crack

Product link : <https://www.sinomaco.com/?p=1213>