

AQUATHENE APF-500

SELF-ADHESIVE POLYMER MODIFIED BITUMEN WATERPROOF MEMBRANE



DESCRIPTION

APF-500 Self-adhesive polymer modified bitumen waterproof membrane is an environmental friendly materials, which applied high polymer modified bitumen and synthetic rubber as the base material, combined with additive activity agent and polyester as a reinforcing layer, and then using polyethylene film as the surface material, and the underside use silicone oil anti sticking isolation paper / film, so this materials has the function of cold self-adhesive, low temperature construction operations, which makes it a environmental friendly materials.

PRODUCT FEATURE

- Remarkable waterproof performance.
- Excellent heat resistance and low temperature flexibility.
- Outstanding puncture resistance.
- Strong UV resistance, long life span.
- Strong adhesion which can targeted the leakage in localized area.
- Good stability and corrosion resistance, lasting effect.

MAIN APPLICATION

- Basement, metro tunnel, pool, various area of waterproof project for civil building.
- Good for non-exposed roofs; The aluminum foil membrane is used for exposed roofs.

ADVANTAGES

- Excellent waterproof performance.
- Excellent high-temperature resistance and low temperature flexibility.
- Outstanding crack resistance and puncturing resistance.
- Strong UV resistance and weather fastness; long service life.
- Strong adhesion to substrate, good bonding ability to varieties of substrate material. Lock the leakage caused by membrane's damage to a local scope and prevent the channeling.
- Good stability and corrosion resistance. Simple construction, pressure-sensitive bonding, lasting effect.

INSTALLATION

Wet apply Substrate Preparation

The substrate should be strong, tight, smooth, clean and flat without flaws like bulge, looseness, sands, pitted face and rebar; The joints like internal & external corner, pipe root etc. should be plastered to be arc by cement mortar; The substrate needs to be moisture but without water flow. Spray some water if the substrate is too dry.

Application:

- Wet the substrate if the it is too dry.
- Prepare the cement slurry.
- Before widespread paving, make reinforce sheet on the internal & external corners, pipe root and outfall etc.
- Roll the membrane forward while coating the cement mortar.

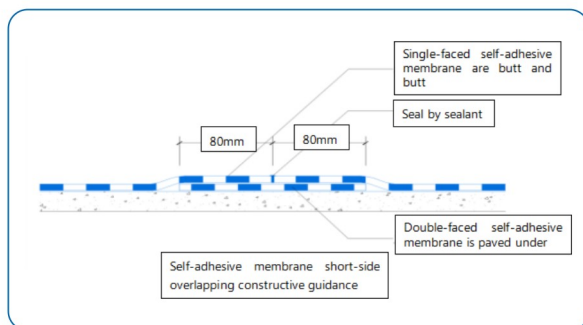
Pave the first membrane: cut the release film lightly by paper-knife. Lift up the film and make it be at an angle of 30 degree with the membrane.

For the second membrane: pre-apply the membrane and overlap it with the previous membrane's lapping guide line. Make sure the lap seam is not less than 80mm.

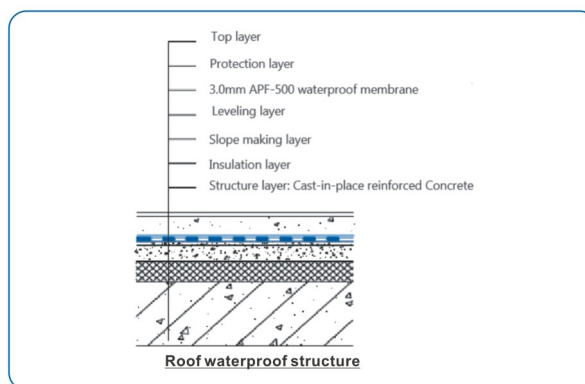
Overlap the long end of the membrane: Press the border by the rollers to vent the air from the lap seam.

● Dry apply Substrate Preparation

The substrate should be strong, smooth, clean without bulge, looseness, sand, pitted face and rebar; The substrate should be dry and the moisture content is less than 9%.



DETAIL DRAWING



Application:

- Pour the substrate treating agent onto the substrate, coat the treating agent evenly by brush or roller without any omission and accumulation.
- Set the datum line according to the shape of the operating site and specification of the membrane. Unfold the membrane and make the adhesive side facing the substrate. Stretch the membrane from both ends to make it flat. Adjust the position according to the datum line then fold the membrane from both ends to the center and prepare to pave.
- The following procedure is the same as the wet-applied application.

SUPPLY

Packing: 1m x 10m (10m²/roll)

ATTENTION

After the complement of the waterproof course, pay attention to protect the course and avoid any damage. During the construction and before the acceptance of the project, all the personnel are prohibited to walk above the waterproof course wearing spike.

PHYSICAL PROPERTIES

Implemented Standard: GB23441-2009

No.	ITEMS	INDEX			
		I	II		
1	Soluble matter content(g/m ²)	3.0mm	2100		
		4.0mm	2900		
2	Tensile properties	Tension/(N/50mm) ≥	3.0mm	450	600
			4.0mm	450	800
		Elongation at maximum tension /% ≥	30	40	
3	Heat resistance	70°C no sliding, flowing, dripping			
4	Low temperature flexibility/°C	-20	-30		
		No crack			
5	Impermeability	0.3mpa, 120min impermeable			



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