

AQUAPRUFÉ APF-P

Self-Adhesive HDPE Modified Bitumen Waterproof Membrane



DESCRIPTION

Aquaprufe APF-P Pre /Wet-applied high polymer waterproof membrane is a combined self-adhesive waterproof membrane which uses high polymer sheet as surface (or body), and uses polymer modified asphalt, such as butyl and styrene-butadiene, as self-adhesive material. It can not only solve the difficulties that high polymer problems during construction, at the same time, it combines some advantages of high polymer sheet and self-adhesive asphalt waterproof membrane.

PRODUCT FEATURE

- **Excellent physical performance, stable chemical performance** High tensile strength and elongation, self-healing, penetration resistance, anti-acid and alkali, temperature resistance and aging resistance.
- **Stickup and firm with cement paste and concrete** Self-adhesive uses a unique formula, includes special active substances. Nontoxic and environmentally friendly.
- **Advanced construction method, flexible, reliable, safety and environmentally friendly** According to the constructions, APF-P can use wet-applied to construct. Use cement paste to bond with substrate, adjacent membranes use their self-adhesive layer to joint. No solvent and flame needed.

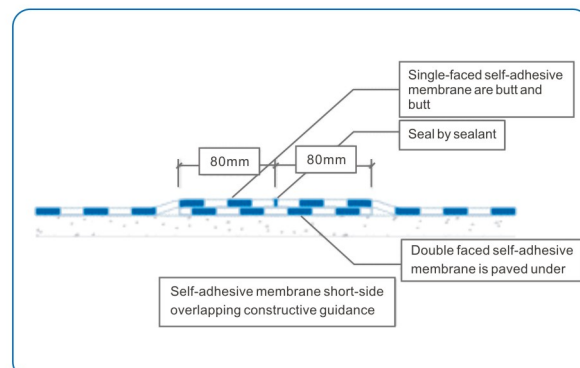
INSTALLATION

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 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 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.



SUPPLY

Wet-applied thickness: 0.35/0.5/0.7mm (HDPE) =>1.2/1.5/2.0mm(membrane)

Pre-applied thickness: 0.7/1.0mm (EVA/HDPE) =>1.2/1.5mm(membrane)

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: GB/T23457-2009

No.	ITEM		TEST RESULT		
			PRE-APPLIED	WET-APPLIED	
				I	II
1	Expansion rate	Tension/(n/50mm)≥	500	150	200
		Elongation at break/% ≥	400	—	
		Elongation at maximum tension/% ≥	—	30	150
2	Nail shank tear strength/n ≥		400	—	
3	Heat resistance/		70°C, 2h no sliding, flowing, dripping		
4	Low temperature flexural properties/°C		25°C,no crack	—	
5	Low temperature flexibility		—	-15°C,no crack	-15°C,no crack

Implemented Standard: GB/T23457-2009

No.	ITEM	MEAN VALUE	TEST METHOD
1	Tension Strength	15MPa	ASTM D412, modified
2	Elongationat break	300%	ASTM D412, modified
3	Peel Adhesion to Concrete	1.5N/mm	ASTM D903, modified
4	hydrostatic pressure resistance	(18-24°C)0.7MPa, 1h no water leakage	ASTM D5385-1993, modified
5	Water vapor transmission ng/(m ² ·S·Pa)	(38±0.6°C Relative humidity) 0.45	ASTM E 96/E 96M 6
6	Low temperature flexibility	-30°C No cracking	ASTM D1970-01



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