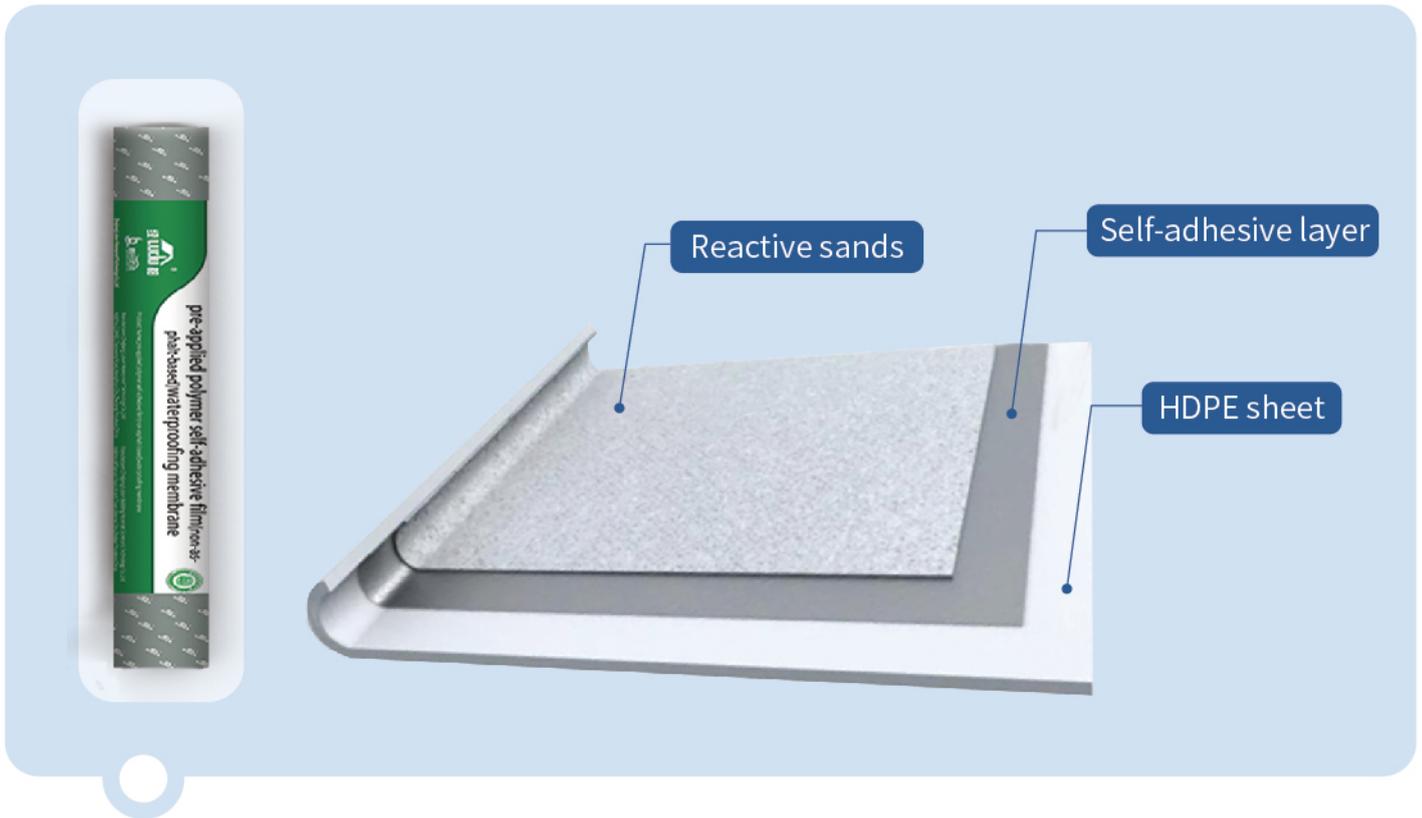


PRE-APPLIED HDPE FILM WATERPROOFING MEMBRANE



Description

HDPE pre-applied membrane is a mainly made of high density polyethylene resin, which cover with macromolecule self-adhesive film and sand or PE/PET. It can bond with concrete layer tightly. After solidifying with the concrete, it forms a seamless bond, eliminating the hidden danger of water leakage and effectively improving the reliability of the waterproofing system.

Usage

- Underground project basement waterproofing .
- Internal waterproofing of underground project side walls.

Packing

Pre-applied HDPE film waterproofing membrane is available in:

1.2mm and 1.5mm thickness
1m and 2m width
20m/roll

Advantages

- Suitable to underground and tunnel construction and pre-applied waterproof construction. It has a waterproof layer, steel bar can be directly installed on the membrane and requiring no protection.
- Low flatness requirement to substrate, can shorten construction term. Cracks and surface irregularities no need to be filled with polymer mortar, can construct on wet base.
- Simple and fast construction, flexible and flexible construction methods.
- Environmentally- friendly: non-pollution.

Application

- a The base surface is allowed to be moist but there must be no visible water. If there is visible water, blocking or drainage measures should be taken.
- b The base surface should be solid and flat, the yin and yang corner should be made into arcs or 45-degree slopes, and the base surface should be cleaned before laying the roll material.

- c The pre-laid polymer self-adhesive membrane waterproofing membrane adopts the empty laying construction technology, with the long side having a 70mm adhesive overlap edge and the short side being overlapped with a matching special double-sided tape.
- d After the reserved self-adhesive edge isolation film at the roll material seam is torn off, the roll material lap joint bonding operation should be carried out in time, and the roll material should be rolled and bonded firmly with a pressure roller to prevent the self-adhesive surface from being contaminated with dust, which will reduce the bonding strength and cause loose bonding or warping of the edges.





Attentions

- In low-temperature environments, the adhesion of self-adhesive films will decrease, so it is necessary to lay them in a warm environment.
- The self-adhesive film needs to avoid contact with sharp objects or tools during laying to avoid scratching or damaging the self-adhesive film.
- When laying self-adhesive film, it is necessary to avoid bending or folding to avoid affecting the adhesion and waterproof effect of the self-adhesive film.

Technical Index

Standard: GB/T 23457-2017

NO.	Items		Index		
			P	PY	R
1	Soluble content/(g/m ²) ≥		—	2900	—
2	Stretch performance	Pull force N/50 mm ≥	600	800	350
		Tensile Strength /MPa ≥	16	—	9
		Film elongation at break /% ≥	400	—	300
		Elongation at maximum tensile force/% ≥	—	40	—
		Phenomenon during stretching	No separation between the rubber layer and the main material or tire base.		
3	Heat resistance		80°C,2h No slipping, flowing and dripping	70°C,2h, No slipping, flowing or dripping	100°C,2h No slipping, flowing and dripping
4	Low temperature bendability		Main body material -35°C, no cracks	—	Main material and layer,-35 °C, no cracks
5	Low temperature flexibility		Layer, -25 °C, no cracks	-20 °C,no cracks	—
6	Oil permeability/number of sheets ≤		1	2	1
7	Water impermeability (0.3 MPa, 120 min)		Impermeable		
8	Peel strength after subsequent concrete/(N/mm)	No processing ≥	1.5	1.5	0.8,cohesion, destruction
		Soaking processing ≥	1.0	1.0	0.5,cohesion, destruction
		Sediment-contaminated surfaces ≥	1.0	1.0	0.5,cohesion, destruction
		UV treatment ≥	1.0	1.0	0.5,cohesion, destruction
		Heat treatment ≥	1.0	1.0	0.5,cohesion, destruction
9	Peel strength after water immersion with the subsequent concrete/(N/mm) ≥		1.0	1.0	0.5,cohesion, destruction
10	Membrane and membrane Peel strength (Joint edge)*/(N/mm)	No processing ≥	0.8	0.8	0.6
		Soaking processing ≥	0.8	0.8	0.6
11	Heat aging(80 °C,168 h)	Tensile strength retention /%	90		80
		Elongation retention /% ≥	80		70
		Low Temperature Bendability	Body material -32 °C, no cracks	—	Main material and adhesive layer -32 °C, no cracks
		Low Temperature Flexibility	Layer -23 °C, no cracks	-18 °C, no cracks	—

Safety precautions

We recommend using protective gloves during installation. Pre-applied HDPE film waterproofing membrane should be lifted by two site personnel.

Technical support

For more information, alternative applications or alternative proposals, please contact our Technical Department at the email address below.

Storage and transportation

During transportation and storage, products of different types and specifications should be stacked separately and should not be mixed. Avoid sunshine and rain, pay attention to ventilation. Storage temperature should not be higher than 45 °C, membrane storage height of no more than five layers of flat storage, vertical storage in a single layer of stacking. Prevent tilting or side pressure during transport. Under normal storage and transport conditions, the shelf life is 1 year.

Contact us

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*We hope that the information contained herein will be of your assistance. Please follow the instructions in the information before proceeding, and we cannot accept any liability for damage caused by incorrect use. If you require assistance during the process, please contact our service personnel via the contact details above.