
PE / PP Composite Waterproofing Membrane

Sinomaco PE/PP Waterproofing Membrane is composed of polyethylene, high-strength (propylene/polyester) non-woven fabric, ultraviolet light-shielding agent, anti-aging agent and other macromolecule raw materials with the changes of their physical and chemical characters, and produced by automatic and single extrusion molding processing production line. The surface of the membrane are reinforced adhesive layers, and the middle of the membrane is composed of a waterproof layer and an anti-aging layer.

Products Feature

1. Anti-aging, anti-oxidation, anti-corrosion, good flexibility, easy bending without break, tensile and puncture resistance, good performance to block plant root thorn.
2. No cracks with the temperature of -40°C and no deformation with temperature of +100°C.
3. Environmental friendly, non-toxic, odorless and non-polluting which meet the requirements and standard of protective materials for drinking water distribution.
4. Excellent suitability and high efficiency for construction. It can be constructed on wet base without water or after the rain thus can save time and labor with good waterproof effect.
5. Strong waterproof performance. The polyhedral cement adhesive agent (special adhesive powder) used in conjunction with the membranes not only has adhesive properties which can seal the base, and block water, but also can keep water tightness and level the layer.

Application Scope

Polyethylene (propylene/polyester) waterproof membrane is widely used in various types of industrial, civil construction roofing, basement, kitchen and toilet, storage tanks, water conservancy, dams, mines, tunnels, bridges as well as culverts, subways, metallurgical and chemical project for impervious, moisture-proof and waterproofing.

Transportation & Storage

1. The packing should be kept intact and free from damage during storage and normal warranty is one year without damage.
2. The storage height must not exceed five packaging membranes heights and be placed on a ventilated, cool, and dry horizontal floor.
3. No contact with acids, alkalis, oils, organic solvents, etc.

Technical Data Sheet (TDS)

TDS of PE/PP Waterproofing Membrane (Standard GB18173.1-2012)		

S/N	Item		Index (FS2)
1	Fracture tensile strength	Normal temperature (23℃)	≥ 60 N/cm
		High temperature (60℃)	≥ 30 N/cm
2	Elongation rate at break	Normal temperature (23℃)	≥ 400%
		Low temperature (-20℃)	≥ 300%
3	Tearing strength		≥ 50N
4	Watertightness (0.3Mpa) 30min		No leakage
5	Low temperature bending		-20℃ No crack
6	Heating expansion	Extension	≤ 2 mm
		Shrink	≤ 4 mm
7	Hot air aging=(80℃*168h)	Tensile strength retention rate	80%
		Elongation rate at break	70%
8	Alkali resistance	Tensile strength retention rate	80%
		Elongation rate at break	80%
9	Ozone aging (40℃*168h) , 200*10-8 Elongation 20%		-
10	Artificial climate aging	Tensile strength retention rate	80%
		Elongation rate at break	70%
11	Peeling adhesive strength (membrane -membrane)	Standard test condition	1.5N/cm
		Water immersion retention rate (23℃*168h)	≥ 70%
12	Composite strength (surface and base)		0.8 MPa
Note: If the membrane thickness is less than 1.0mm, the elongation rate at break shall not be less than 50% and the performance data of other properties shall be over 80% of the test requirement.			

Product link : <https://www.sinomaco.com/?p=1229>