



PMH-3040

High-density Polyethylene (HDPE)
Self-adhesive Waterproof Membrane

High-density Polyethylene (HDPE) Self-adhesive Waterproof Membrane is specially used in underground project, it can bond with concrete layer tightly. After Membrane bonding with concrete, water can be blocked between membrane and concrete, which can improve the reliability.

Where to use



Basement; Subway; Tunnel; Cave; Other underground public constructions.

Product Specification

Width (m)	Length (m)	Thickness (mm)
1.2 or 2.4	20 or more	1.2 or 1.5

Oriental Yuhong, the Unique

Advantages



- Good bonding with concrete applied on membrane, to block water between membrane and concrete further to protect concrete effectively.
- Low flatness requirement to substrate, reliable overlapping; mechanical fixing, easy application.
- Sound anti-puncture performance.
- Adaptable to settlement and distortion.
- Weather-resisting and anti-UV.
- Resist to acid, alkali, mold.
- Eco-friendly material

Technical Properties

Test item	Test Method	Unit	Requirement
Water tightness to liquid water	EN 1928	—	60KPa,24h,Pass
Resistance to static loading	EN 12730	Kg	20
Tensile force	Longitudinal	N/50mm	≥800
	Transversal	N/50mm	≥800
Elongation/	Longitudinal	%	≥500
	Transversal	%	≥500
Durability of water tightness against chemicals	EN 1847 Test afterwards to EN1928	—	60KPa,24h,Pass
Durability of water tightness against ageing	EN 1296 Test afterwards to EN1928	—	60KPa,24h,Pass
Resistance to impact	EN 12691-B	mm	600mm
Resistance to tear(Nail Shank)-unreinforced sheets	Longitudinal	N	≥500
	Transversal	N	≥500
Peel resistance of joint	EN 12317-2	N/50mm	≥400
Resistance to alkali	EN 1847 Test afterwards to EN1928	—	60KPa,24h,Pass
Length	EN 1848-2	m	≥20
Width	EN 1848-2	m	2.4±0.024 / 1.2±0.012
Mass per unit area	EN 1849-2	Kg/m ²	≥1.45(1.5mm) ; ≥1.15(1.2mm)
Straightness	EN 1848-2	mm/10m	≤20
Visible defects	EN 1850-2	—	No visible defects
Bitumen compatibility	prEN 1548 and EN1928	—	60KPa,24h,Pass

Application

Surface preparation → geotextile application → position setting → membrane installation → wide edge overlapping → long edge overlapping → inspection & approval → remove release film → install steel bar → concrete work.

Suggested application temperature shall above 5 °C and less than 40°C for standard product. Customized product is available for application temperature higher than 40°C.

Surface preparation: firm, dense, smooth surface without bumps, cracks and holes.

Overlapping Method: Overlapping with adhesive tape; Overlapping with welding machine.