



CROSS-LAMINATED FILM SELF-ADHESIVE MEMBRANE

TPO WATERPROOF MEMBRANE

EPDM WATERPROOF MEMBRANE

CPE WATERPROOF MEMBRANE

PVC WATERPROOF MEMBRANE

PRE APPLIED HDPE WATERPROOF MEMBRANE  
**PRODUCT DATA SHEET**

QINGDAO ZHONGNUO NEW MATERIAL CO.,LTD.

## Introduction to SINO UNION WATERPROOF

SINO UNION WATERPROOF is a high-tech enterprise which combine together with R&D, manufacturing, marketing and technical service. Production bases and R&D which respectively located in Shandong and Jiangsu, with 6 modern waterproof material production lines leading to annual production capacity of waterproof membrane up to 5 million square meters, coating up to 10,000 tons,

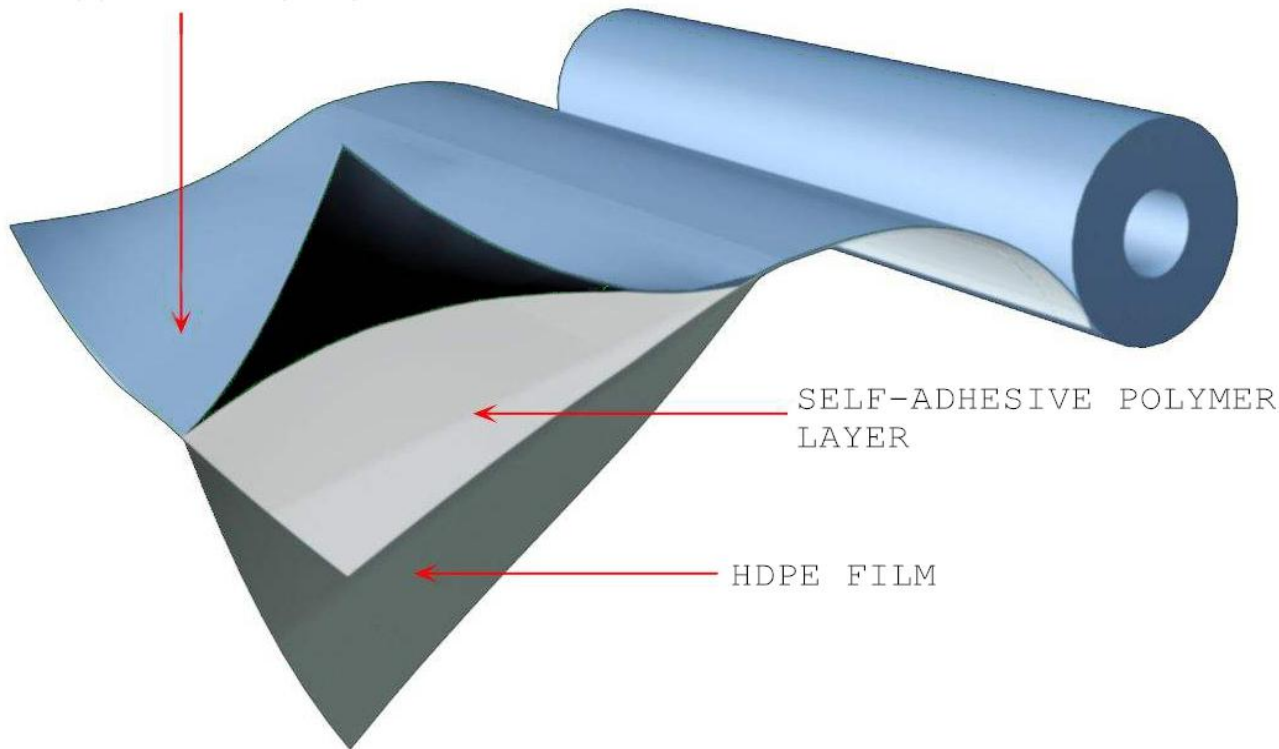
As a reputed waterproofing brand in China, We can supply perfect product system, including waterproof membrane, waterproof coating, rigid waterproof material and drainage sheet to provide One-stop excellent waterproof solution. Meanwhile, Our products are sold to 23 countries and regions in the last few years, which are including Japan, Malaysia, Singapore, India, Nigeria, Congo, Australia, New Zealand, UK, US, Canada, Brazil, Chile, etc. We provide perfect multiple fields waterproof system solution applied in many countries' National landmarks, municipal Engineering, traffic engineering, residential commercial real estate and special projects and other fields.

In future, we will implement the development strategy of establishing brilliant organizational culture, forming market-oriented core competitiveness, and building creative team to provide customers with exceeding-expectation products, services, and values. With the promotion of "Leading Technology, Integrity First, Superior Service" development strategy, Sino union waterproof strive to be the loyal body guards for the building, Adhering to social responsibilities and upholding market rules, Sino uion waterproof will make efforts to realize sustainable and leap-forward development, so as to become a world's first-rate waterproof enterprise.

WD<sup>PROOF-H</sup>

**PRE-APPLIED HDPE WAERPROOF MEMBRANE(WITH SAND)**

PARTICULATE PROTECTIVE LAYER



**Product discription**

WD<sup>PROOF-H</sup> Pre-applied HDPE waterproofing membrane(with sand) consists of multi-layer composite waterproofing material for superior waterprofing performance,including a layer of thick HDPE fim,self-adhesive polymer layer and a unique particulate layer.

WD<sup>PROOF-H</sup> Pre-applied HDPE waterproofing membrane(with sand) can be installed on uniform and regular concrete blinding,compacted sand-stone cushion for waterproofing of below ground surfaces and is also used for waterproofing of confined surfaces or blind side waterproofing.

WD<sup>PROOF-H</sup> Pre-applied HDPE waterproofing membrane(with sand) is designed to bond fully and permanently with poured concrete against it after placing and tying reinforcement.

PRODUCT NAME	LENGTH	THICKNESS
WD <sup>PROOF-H</sup> <b>PRE-APPLIED HDPE WAERPROOF MEMBRANE (WITH SAND)</b>	1M/2M	1.2MM
		1.5MM

## Product Features

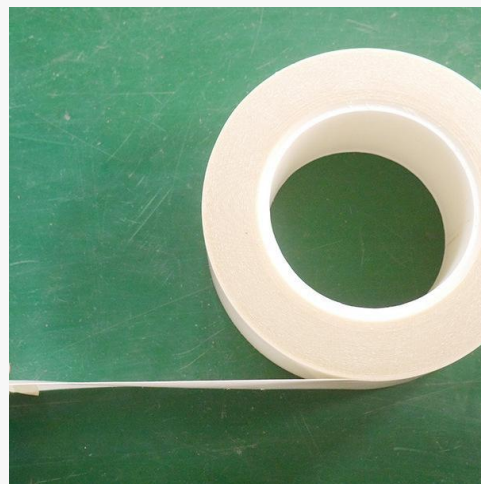
1. Forms permanent bond to concrete poured against it, preventing water from seeping into the gap between waterproofing membrane and the structure.
2. Not affected by the displacement of the basal layer/ground settlement beneath slabs.
3. Membrane is self-protecting. It can be tafficked immediately after application and does not require the use of protective layer.
4. Simple and quick to install, requiring no priming or fllets.
5. Unaffected by wet conditions.
6. Fully-adhered watertight laps and detailing.
7. Excellent bonding even under long-term water immersion.

## Where to use

1. Waterproofing below ground concrete structures.
2. Protection of concrete foundations against aggressive ground contaminants.
3. Prevents methane leakage in underground layers.



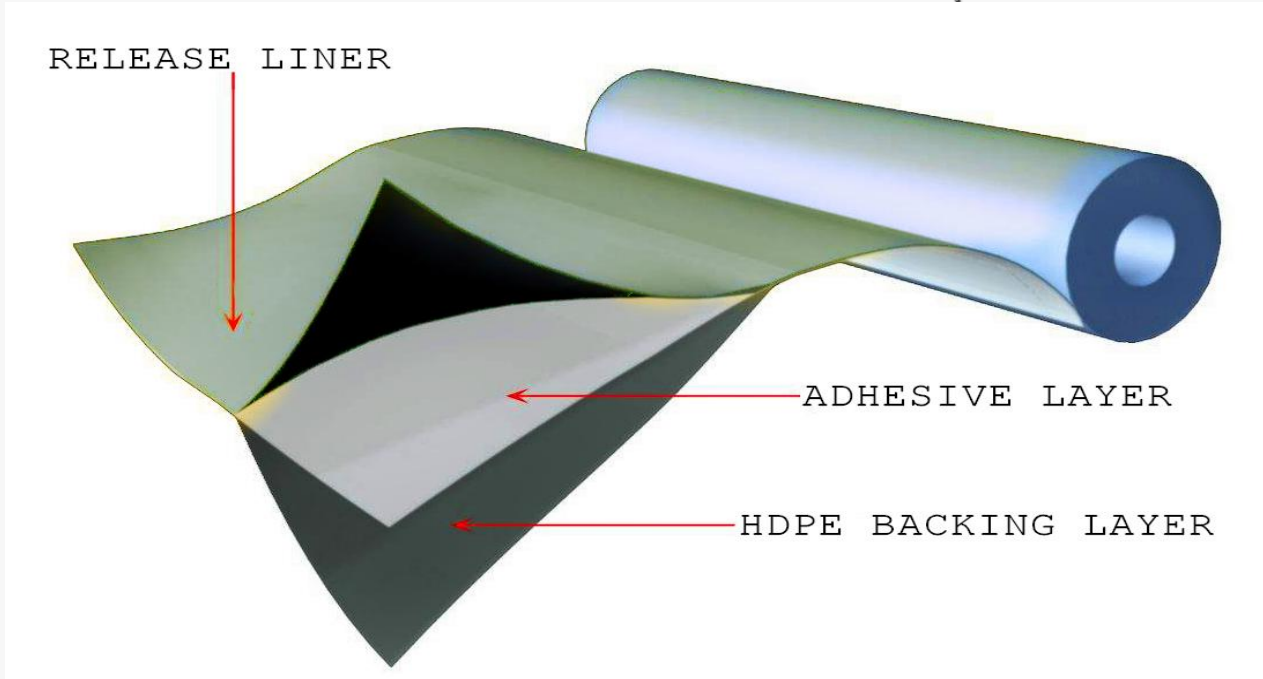
Adhesive



Sealed Tape

WD<sup>PROOF-H</sup>

**PRE-APPLIED HDPE WATERPROOF MEMBRANE(WITHOUT SAND)**



**Product discription**

WD<sup>PROOF-H</sup> Pre-applied HDPE waterproofing membrane (Without Sand) consists of multi-layer composite waterproofing material for superior waterproofing performance, including HDPE backing layer, self-adhesive polymer layer and release liner.

PRODUCT NAME	LENGTH	THICKNESS
WD <sup>PROOF-H</sup> PRE-APPLIED HDPE WATERPROOF MEMBRANE (WITHOUT SAND)	1M/2M	1.2MM
		1.5MM

**Performance Index**

Executive Standard: GB/T 23457-2009

SN	Items	Standard Values
1	Tensile Strength	500N/mm
2	Extensibility (%)	400%
3	Screw Rod Tear Strength (N)	400N
4	Anti-channeling	0.6MPa
5	Low Temperature Flexibility	-25°C, no fissure
6	Concrete Peeling Strength before Treatment	2.0N/mm
7	Thermal Aging and Concrete Peeling Strength	1.5N/mm
8	UV Aging and Concrete Peeling Strength	1.5N/mm
9	Thermal Resistance	70°C, 2h, no displacement, flowing or dropping

## Product Features

1. Forms a unique continuous adhesive bond to concrete poured against it—prevents water migration and makes it unaffected by ground settlement beneath slabs.
2. Fully-adhered watertight laps and easy to execute detailing.
3. Provides a barrier to water, moisture and gas—physically isolates the structure from the surrounding ground.
4. Zero permeance to moisture.
5. Simple and quick to install, requiring no priming or fillets.
6. Can be applied to permanent formwork—allows maximum use of confined sites.
7. Unaffected by wet conditions—cannot activate prematurely.
8. Inherently waterproof, non-reactive system: Not reliant on confining pressures or hydration; Unaffected by freeze/thaw, wet/dry cycling.
9. Chemically resistant, effective in all types of soils and waters—protects structure from salt or sulphate attack.

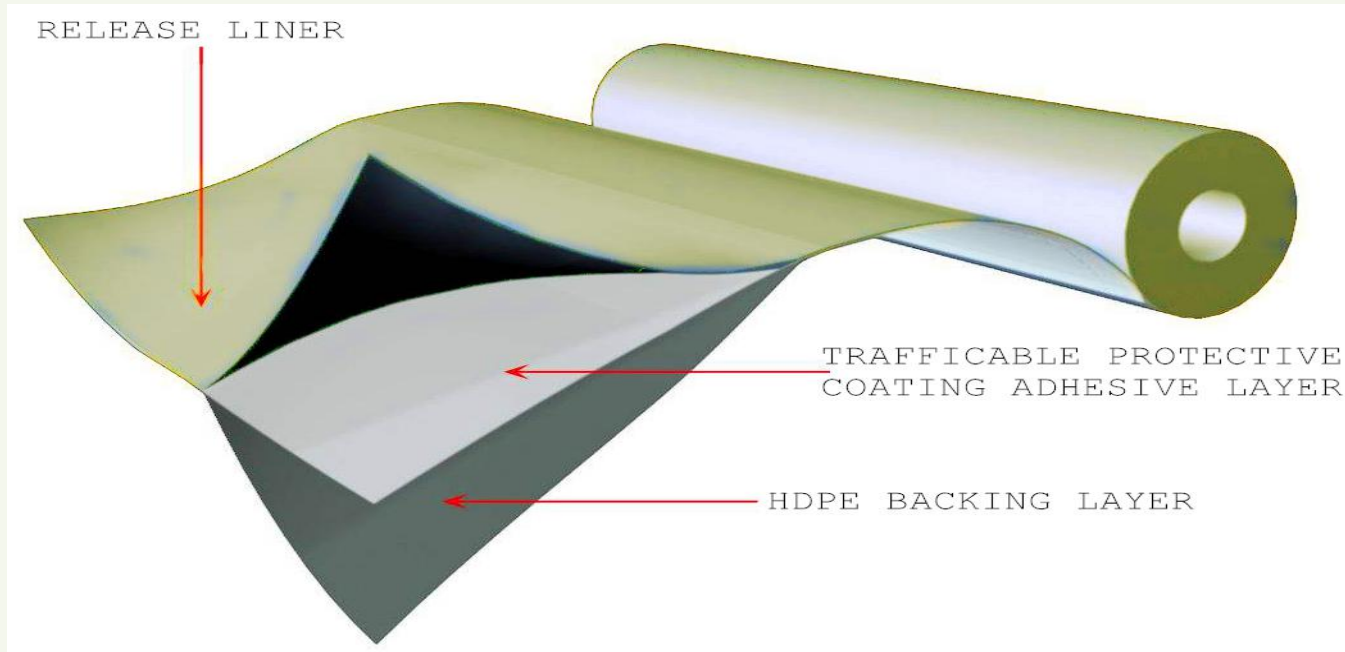
## Where to use

Pre-applied waterproofing system for walls and tunnels projects.



WD<sup>PROOF-H</sup>

**PRE-APPLIED HDPE WATERPROOF MEMBRANE (PLAIN FINISHED)**



**Product description**

WD<sup>PROOF-H</sup> Pre-applied HDPE waterproofing membrane (Plain Finished) is composed of one thick HDPE backing layer, self-adhesive polymer layer, trafficable protective coating layer and the release liner. The unique membranes realizes firm bonding to poured concrete so that prevents water ingress or migration.

PRODUCT NAME	LENGTH	THICKNESS
WD <sup>PROOF-H</sup> <b>PRE-APPLIED HDPE WATERPROOF MEMBRANE (PLAIN FINISHED)</b>	1M/2M	1.2MM
		1.5MM

**Performance Index**

Executive Standard: GB/T 23457-2009

SN	Items	Standard Values
1	Tensile Strength	500N/mm
2	Extensibility (%)	400%
3	Screw Rod Tear Strength (N)	400N
4	Anti-channeling	0.6MPa
5	Low Temperature Flexibility	-25°C, no fissure
6	Concrete Peeling Strength before Treatment	2.0N/mm
7	Thermal Aging and Concrete Peeling Strength	1.5N/mm
8	UV Aging and Concrete Peeling Strength	1.5N/mm
9	Thermal Resistance	70°C, 2h, no displacement, flowing or dropping

## Product Features

1. Forms a unique continuous adhesive bond to concrete poured against it . prevents water migration and makes it unaffected by ground settlement beneath slabs.
2. Fully adhered watertight laps and easy to execute detailing.
3. Provides a barrier to water, moisture and gas - physically isolates the structure from the surrounding ground.
4. Self protecting - can be trafficked immediately after application and ready for immediate placing of reinforcement.
5. Zero permeance to moisture.
6. Simple and quick to install, requiring no priming or fillets.
7. Can be applied to permanent formwork—allows maximum use of confined sites.
8. Unaffected by wet conditions—cannot activate prematurely.
9. Inherently waterproof, non-reactive system: Not reliant on confining pressures or hydration; Unaffected by freeze/thaw, wet/dry cycling.
10. Chemically resistant, effective in all types of soils and waters-protects structure from salt or sulphate attack.

## Where to use

1. Waterproofing to basement of industrial and civil engineering.





## Construction process

### Base course cleaning

Horizontal cushion base course shall be solid and compact, flat and smooth, without gaps or holes larger than 12mm on the surface. Existing cavities, pitted surface, cracks, gaps and holes shall be repaired in advance.

The base course may be humid, but there shall not be any water.



### Detail treatment

Additional waterproof layer shall be deployed at pipes, floor drains, internal and external corners, inlets and outlets, and other weak parts. Single-sided adhesive membrane without sand layer shall be used to form additional waterproof reinforcement for special positions, which is fixed on base course with screws. It is required that the width of additional layer shall not be less than 500mm, and the material shall be exactly the same as that applied in large scale construction.



### Large scale paving of waterproof membrane

Before large scale construction, setting-out shall be implemented first to determine the position of each roll of membrane. In actual application, the exact position of membrane shall be adjusted slightly.

Membrane shall be paved according to setting-out layout, and shall be flattened and rolled. Paved membrane shall be flat and straight, with correctly overlapping treatment, avoiding wrinkles or twists.



Construction Setting-out

### Overlapping treatment

Pressure sensitive adhesive without quartz sand is reserved along the overlapping position, which may directly adhere the position with the smooth surface of another membrane. As for the width side, sealing tape produced by Sino may be used to adhere two pieces of membrane together. The overlapping width of length side is 70mm, and width side 80mm.



Large-scale Membrane Paving

### Fixing of vertical membrane on walls

In facade construction, membranes shall be mechanically fixed at self-adhesive position (overlapping position along the length direction) 10-20mm from membrane edge in every 400-600mm. Moreover, the fixing position shall be fully covered by membrane.



## Advantages of

### Brand

SINO UNION WATERPROOF is professional waterproof system supplier integrating scientific research and development, production and sales, and construction service altogether, and a leading brand engaged in China's waterproof industry.

### Quality

Advanced world grade production lines, Skilled and strict QC system with ASTM&EN STANDARD, Focus on every customer, Treat every indicator seriously, check the whole process from incoming material inspection, online inspection and finished product inspection, and keep all the hidden quality problems in the factory to give customers professional installation guidance, in order to achieve "Zero" Quality complain.

### Scale

SINO UNION WATERPROOF has 3 productions bases in Shandong, Jiangsu, Jilin, and Guangdong, with 6 modern waterproof material production lines leading to annual production capacity of waterproof membrane up to 5 million square meters, coating up to 10,000 tons

### Trust

SINO UNION WATERPROOF adheres to scale production, adopts advanced technology and equipment, and takes technical innovation and research optimization as the foundation, providing customers in different fields with the best choices.



## Quality Create the Trust SINO UNION WATERPROOF

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<http://www.sinowaterproof.com>

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