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卓宝科技

JOABOA TECHNOLOGY

PET™ 贴必定 (Bondsure)
WET-APPLICATION WATERPROOFING MEMBRANE

Ver:20151012

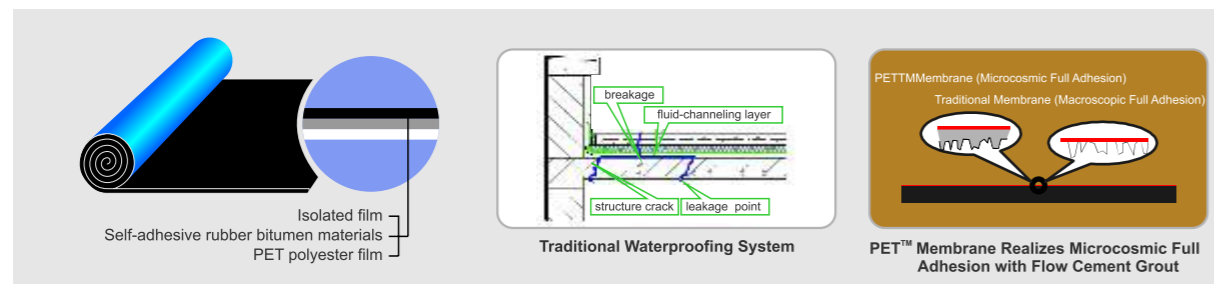
PETTM Wet-application Waterproofing Membrane System Introduction

Generally speaking, there are three factors lead to Seepages:

1. Waterproofing layer is imperfect: It's hard to completely avoid weak points or breakages, which makes waterproofing layer with deficiencies or hidden defects more or less.
2. The main structure is with defects: It's hard to completely avoid construction joint, deformation joint and small fissures in structure.
3. If there are weak points or breakage, water gets in and fluid-channeling happens between the main structure and the waterproofing layer. In such cases, once the main structure is with defects, seepages would occur.

In most cases, traditional waterproofing materials can only form into a "protective film" in ideal status, thus, commonly seen thorny problem would arise. Any defect in waterproofing layer can lead to fluid-channeling, which could further make larger area of waterproof layer even the whole lose efficacy. Obviously, in terms of waterproofing system, tackling the problem of fluid-channeling is the most convenient and effective way to solve leakage problems.

PET waterproofing membrane system is the one of the most effective way in solving the problem above. By adopting wet-placement application, it sticks to the base closely and firmly, forming a reliable "Skin Type" waterproofing system which can eradicate fluid-channeling phenomenon thus root out necessary conditions for seepage. In such cases, even if there are defects between the main structure and the waterproofing layers, seepage would not happen generally.



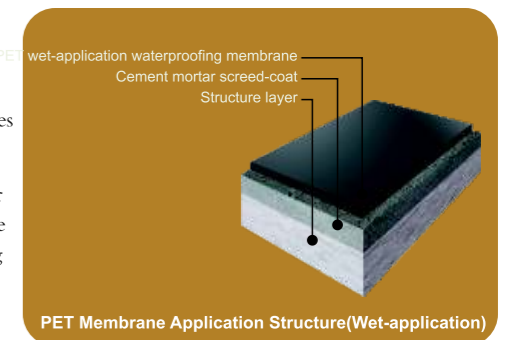
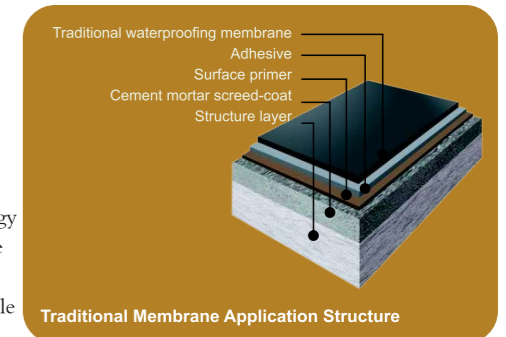
PETTM Wet-application Waterproofing and "Skin Type" Waterproofing Theory

JOABOA Tech began to change traditional waterproofing theories by long-term exploration and research, and innovative to put forward and practice the waterproofing theories of "Skin Type". With such a theory as guidance, JOABOA Tech developed a series of self-adhesive waterproofing membranes, among which, BAC Wet-application membrane is the emblematic and leading product.

The birth of PET wet-application waterproofing membranes and the technology of wet-application initiated by JOABOA have led a profound revolution in the waterproofing industry. Any defect in waterproofing layer can lead to fluid-channeling, which further make larger area of waterproofing layer even the whole could lose efficacy. And it is difficult to find out and repair the seepage spots. Judging from actual waterproofing effectiveness, to bring waterproofing layers into full play under whatever conditions and avoid fluid-channeling, the most effective and economic way is regardless of the external protection layer stuck outside or inside, to firmly and eternally stick the waterproofing layers to the beneath of the main structures like base plates of basement, side walls, head plates or roof plates. This is the waterproofing theories of "Skin Type".

PET wet-application waterproofing membrane is made of self-adhesive rubber bitumen as master material with highest water impermeability and cement as the cheapest adhesives, constituting the most reliable and economical waterproofing system called "Skin Type".

On side walls, head plates and roofs of basements, with wet application of cement slurry or cement mortar, they are combined tightly into one unit with the structure, enhancing the reliability of waterproofing layer without worries about fluid-channeling.



Waterproofing Method	Anti& Drain Combination Waterproofing	Traditional Waterproofing	Skin-Type Waterproofing
Hydraulic pressure	Hydrodynamic pressure, small	Hydrostatic pressure, big	Hydrostatic pressure, big
Reliability	High	Low, easy seepage	High, no seepage
Direct Cost	High	High	Low
Future Cost	More	More	Less
Construction Period	Process complicated, slow	Process complicated, slow	Process simple, quick
Conclusion	Reliability, expensive	Unreliability, abandon	Reliability, cheap, widely used



PET™ 必必定 (Bondsure) WET-APPLICATION WATERPROOFING MEMBRANE

PET is made of polyester film (aluminum laminated film, al-plastic compound film), self-adhesive rubber and isolation materials. Its special materials properties and wet-application lead to remarkable features as following:

- 1.Ultra-strong adhesion property can stick to the substrates tightly which beyond your image.
- 2.Saving construction materials but achieve a perfect waterproofing effect. High standards waterproofing projects adopt multilayer application, so that reveal its excellent waterproofing feature.
- 3.Safe and environment-friendly. Wet-application with cement-based materials, no need to prime coat and hot melting, no volatile solvent, no hidden fire hazards and no harm to human bodies.
- 4.Strong damage resistance and simple for repairing once incurs to breakage.
- 5.Covered and protected by cement-based adhesive materials, possessing rigid waterproofing function so that creates one waterproofing layer but diploid prevention.
- 6.Easy to find out and repair the breakage spots, low maintain cost, and no phenomenon of fluid-channeling, all above promote its water self-locking property.
- 7.Construction application seems like blockhead and convenient to handle.

Thanks to its creative efforts, JOABOA produces 2-meter-wide PET wet-application waterproofing membrane with advanced manufacturing facilities, which reduces nearly half the number of joints and half the loss on lapping them. It makes building waterproofing more time-saving, material-saving and lower seepage probabilities. Besides, its cost performance is better and reliability of waterproofing system is more secured.



Specifications

Thickness (mm)	Width (mm)	Length (m)
1.2	1000/2000	30/20
1.5	1000/2000	20/15
2.0	1000/2000	20/15

Note: other specifications can be offered depended on agreements between buyers and supplier.

Application Range



Waterproofing, anti-seepage and moisture proof of basements and roofs.



Physical and Mechanical Properties

Standards GB/T23457-2009

NO.	Item	Index	
1	Tensile property	Tensile strength/(N/50mm) \geq	150
		Elongation at break /% \geq	30
2	Tearing strength /N \geq	12	
3	Heat Resistance	70°C, 2h no displacement. No flow ability. No drip page	
4	Low temperature flexibility /°C	-15	
		No crack	
5	Water impermeability	0.3 MPa, impermeability within 120 min	
6	Peel strength with membrane/(N/mm) \geq	No treatment	1.0
		Heat treatment	1.0
7	Oil permeability/piece \leq	2	
8	Holding power/min \geq	15	
9	Peel strength with cement mortar/(N/mm) \geq	No treatment	2.0
		Heat treatment	1.5
10	Peel strength with cement mortar after immersion/(N/mm) \geq	1.5	
11	Thermal ageing(70°C, 168h)	Tension retention/% \geq	90
		Elongation retention/% \geq	80
		Low temperature flexibility/°C	-13
			No crack
12	Thermal stability	Appearance	No wrinkles, No slip, No flow
		Dimensional size/% \leq	2.0

Application Method



1. Clean and wet substrates first.
Remove protrusions on the substrate, and make it clean and wet in advance.



2. Brush the cement mortar.
Smear the mixed cement mortar on the substrate.



3. Place membranes.
Roll and place membranes on the cement mortar.



4. Exhaust and adhere
Exhaust the air under membranes, and stick the overlap of neighboring membranes tightly at the same time.

Both wet-application and dry-application are viable based on the site situations.

Storage and Transportation

1. Different types or specifications of products should be separated, not mixed.
2. Keep it dry and ventilated, protected from the sun or rain.
3. Storage temperature should never be higher than 45 °C. Pile up the membranes flatwise whose stockpile height never exceeds five layers. One layer is guaranteed if it is placed vertically.
4. Prevent it from inclination or lateral pressure. If necessary, cover it with felt-cloth.
5. Storage time is at least one year from manufacture date on if the product is under normal operation of storage.

Manufacturing Bases



Shenzhen Materials Factory



Beijing JOABOA



Suzhou JOABOA



Hubei JOABOA



Wuhan JOABOA



Chengdu JOABOA



JOABOA Tech has invested USD 8,333,334 to set up an excellent self-adhesive membrane product line by introducing advanced facilities from American A&D company.

JOABOA Tech has formed industrial layout network the whole China first. With advanced facilities, strict QMS and excellent environmental facilities, Joaboa guarantees good quality of its products.

Typical Projects



Shenyang Olympic Sports Center



Nanjing Olympic Sports Center



Shijiazhuang Airport



HuaxiaHouse Furnishing



The First International



Guangzhou Wanke City garden



Nanjing Jiuhua Mountain Tunnel



Shenzhen Bon-Garden Landscape Park



ShenzhenBook City Center



Yinchuan Government Center



China Agriculture University



Hainan Province office Building



Tanzania National Stadium



Dalian Heping Modern City



Suzhou International Expo Center