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# S-CLF II SUPER TENSILE STRENGTH SELF-ADHESIVE WATERPROOF MEMBRANE

(CODE: CHINA RED)

Ver.:20220510

SHENZHEN JOABOA TECHNOLOGY CO.,LTD.



## COMPANY PROFILE

Shenzhen Joaboa Technology Group (hereinafter referred to as Joaboa Tech) is an industry-leading functional building material system service provider, as well as a national high-tech enterprise, which was established in 1999.

Joaboa Tech is headquartered in Shenzhen, with eight modern production bases located in Tianjin, Suzhou, Shishou, Wuhan, Chengdu, Huizhou, Shishou and Foshan, with several branches spread over the country. Joaboa Tech has achieved more than 100 core national patents, and developed 2 national key new products and 5 FM APPROVED medium and high-end PVC/TPO roofing sheet and WICI Waterproof & Insulation integrated products. Joaboa Tech has 5 major industry standard laboratories with strong technical research and development capabilities, which not only have been selected as Key Laboratories of Guangdong Province, but also approved by CNAS-China National Accreditation Service for Conformity Assessment.

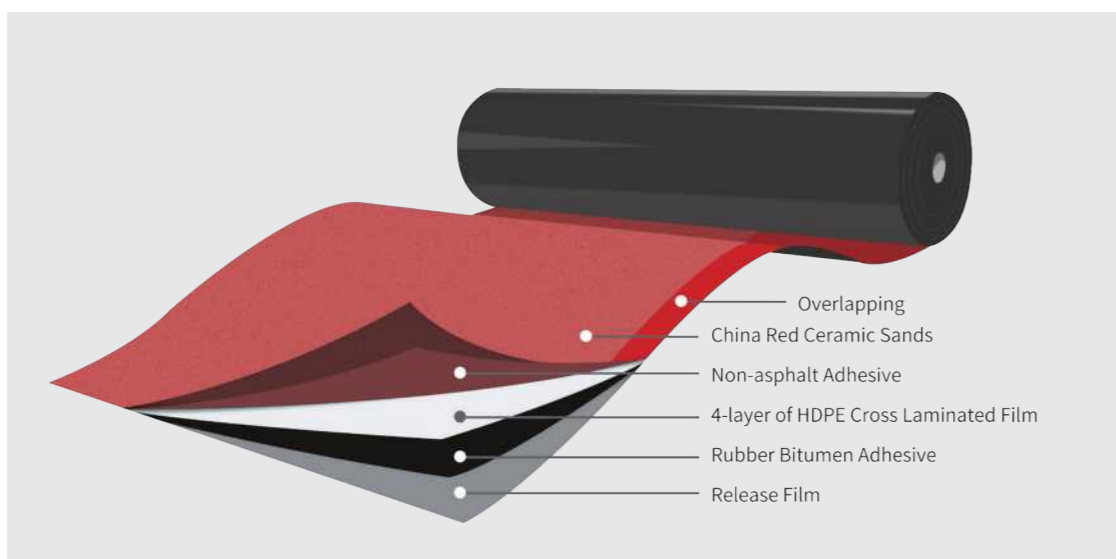
Being as a Top 3 brand of building Waterproof/Decoration & Energy-saving/Floor Hardening materials from China, Joaboa Tech's products and systems are widely used in major infrastructure construction, industrial buildings and civil & commercial buildings, with landmark projects such as Beijing 2008 Olympic Games Stadium, HUAWEI Bantian Base, Tencent Headquarter, Canton Fair Stadium, Crescent Mall (Vietnam), Urban Village (Cambodia), Jontian No. 1 Condominium (Thailand) etc.

As the Pioneer of High Quality Waterproof Service System, Joaboa Tech will continue to dedicate non-leakage Waterproof projects to the society, and care for the poetic and peaceful living of human beings!

## PRODUCT DESCRIPTION

S-CLF II Super Tensile Strength Self-adhesive Waterproof Membrane is a new and innovative self-adhesive pre-applied membrane consisting of multi-layers of HDPE super strength cross laminated film, non asphalt polymer rubber, high performance self-adhesive rubber bitumen, anti-adhesive finish and release film.

It has excellent tensile strength, elongation, tear resistance, flexibility, dimensional stability and application convenience. The membrane can be bonded with post cast concrete firmly at long term, thus forming a perfect solution for basement slab, side wall, metro, railway, tunnel and other pre-application waterproofing projects.



Structural Diagram



Picture

## PRODUCT FEATURES

- 1 Pre-paved Bonding to Prevent Fluid-Channeling**  
 The waterproof layer can be closely integrated with the post-poured concrete structure layer, eliminating the hidden danger of water channeling.
- 2 Excellent Performance, Strong Anti-deformation Ability**  
 It adopts strong cross-laminated film as core material, which has high elongation at break, high tensile strength, and strong ability to resist structural deformation.
- 3 Soft and Easy Construction**  
 The thickness of the core material superimposed by four-layer of HDPE cross laminated film is less than 0.3mm, which makes the application around internal and external corners and other become more simple, reliable and much safer.
- 4 Unique Structure, Easy to Overlap**  
 The unique “back stick” design can realize “adhesive bonded to adhesive” around any of the overlapping area, which is more convenient and reliable. At the same time, the vertical area can be temporarily fixed with the base layer during construction to avoid sliding.
- 5 Dimensionally Stable and Wrinkle Free**  
 The dimensional change rate of the material is low, and it is not easy to bulge, wrinkle, deformation and other problems in the sun exposure environment.
- 6 Save Time and Cost**  
 The pre-applied construction, which has low requirements on the base surface and no need of protective layer, which can save the construction period and comprehensive cost.

## SPECIFICATION

Type	Thickness (mm)	Width(mm)	Length (m)
YC	1.5-2.0	1000	20

**Note:** Other specifications and models can be determined by negotiation between the supplier and the demander.

## PERFORMANCE INDEX

Q/12TJZB 021-2021

No.	Items	Index	
1	Tensile Strength(N/50 mm) $\geq$	600	
2	Elongation at Break/% $\geq$	200	
3	Nail Tear Strength/N $\geq$	300	
4	Heat Resistance	80 °C,Sliding not more than 2mm	
5	Low Temperature Flexibility	-25 °C, No Cracking	
6	Impermeable (0.3 MPa,120 min)	Impermeable	
7	Peel Strength Membrane with Membrane (N/mm) <sup>a</sup>	No Treatment $\geq$	1.0
		Heat Treatment $\geq$	1.0
		Water Immersion $\geq$	1.0
8	Oil Penetration/ sheet pieces $\leq$	2	
9	Impact Resistance (0.5kg·m)	No Leakage	
10	Resistance to Static Load	20 kgNo Leakage	
11	Resistance to Water Channeling	0.8 MPa/35 mm, 4h,No Fluid-channeling	
12	Peel Strength with post-poured concrete /(N/mm)	No Treatment $\geq$	2.0
		Water Immersion $\geq$	1.5
		Sediment Pollution $\geq$	1.5
		UV Treatment $\geq$	1.5
13	Peel Strength with Cement Mortar After Immersed in Water (N/mm)	$\geq$	1.5
			90
14	Thermal Aging Tes (80°C, 168h)	Retention Rate of Tensile Strength /% $\geq$	80
		Retention Rate of Elongation/% $\geq$	-23 °C,No Cracking
		Low Temperature Flexibility	$\pm 1.5$
15	Degree of Dimension Change/%		

<sup>a</sup> Sampling Test of Membrane at the Edge

## CONSTRUCTION PROCESS

### Substrate Requirements

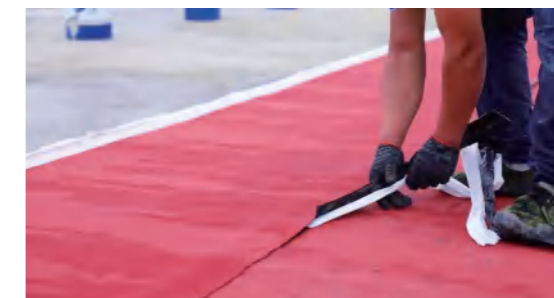
- The base course maintenance shall meet the design and specification requirements. Before the construction of waterproof works, the quality acceptance of the previous works shall be carried out, and the construction can be carried out only after it is qualified.
- Various pipe fittings shall be embedded in advance according to the design and specification requirements, and sealed.
- The surface of the base course has been cleaned and basically flat without obvious protruding parts.
- The internal and external corners of the base surface shall be plastered into a circular arc, with a minimum radius of 50mm for the internal corner and 20mm for the external corner.
- During construction, there is no water on the base surface. If there is ponding, the construction can be carried out after the ponding is removed.



Clean the Substrate →



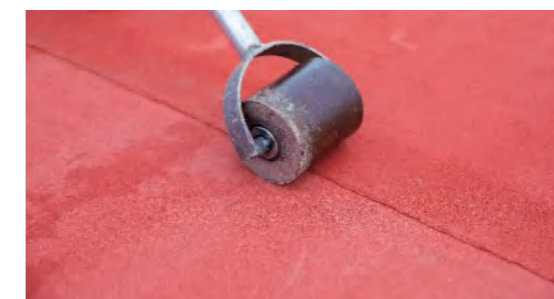
Install Membrane →



Long Side Overlap →



End Side Overlap →



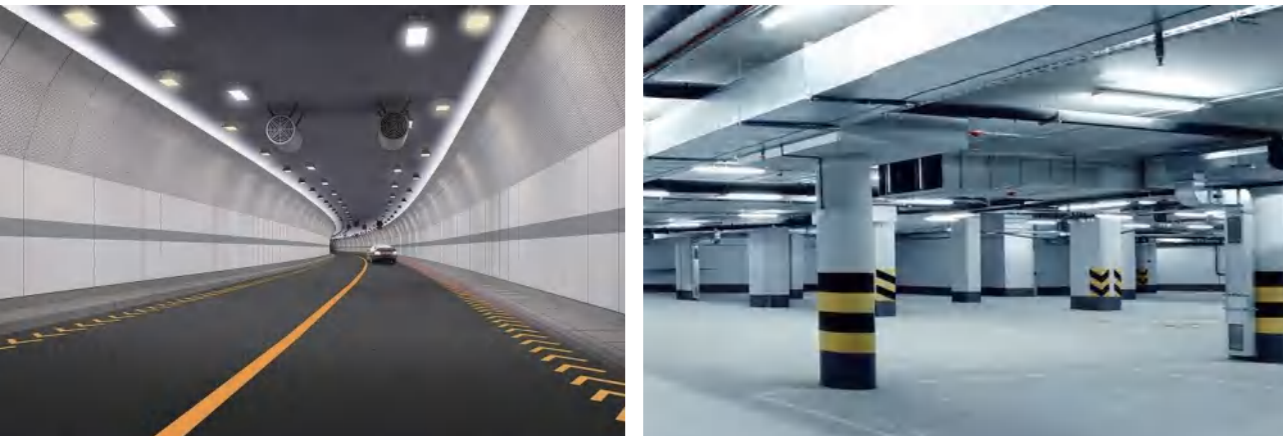
Rolling Compaction →



Detailed Sealing →

## APPLICATION SCOPE

It is applicable to waterproof and anti-seepage projects in basement, roof and other parts of industrial and civil buildings.





## CONSTRUCTION POINTS





- 1 After applying membrane, pay attention to the follow-up protection. The steel bars shall not be dragged on the waterproof layer to avoid damaging it.
- 2 In the process of binding reinforcement, if the crowbar needs to be used for the movement of steel bars, a wooden backing plate shall be set under it for temporary protection to avoid damaging waterproof membrane as far as possible.
- 3 During the welding of steel bars, in order to avoid welding slag scalding the membrane, water can be sprayed on the surface of the membrane.
- 4 During the subsequent construction of the waterproof layer, if the waterproof layer is damaged accidentally, it can be repaired according to the different situation.
  - When the damage point is small, it can be sealed and repaired with compatible material coating.
  - When the damage point is large, cut the membrane sheet with appropriate size according to the damage situation, and paste the compatible material coating on the damaged part for repair.


## STORAGE AND TRANSPORTATION

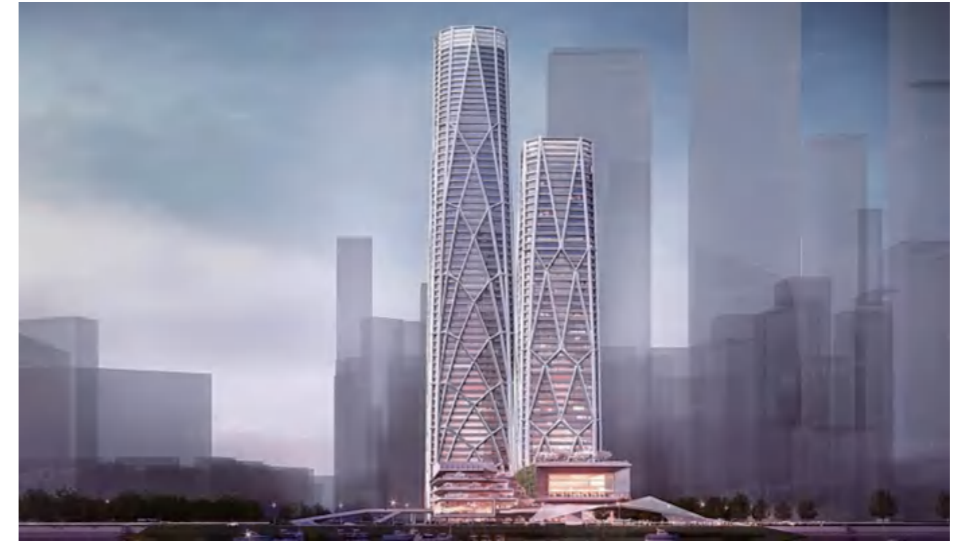
 Products of different types and specifications shall be stacked separately and shall not be mixed.

 Keep away from sunlight, rain and under ventilated.

 The storage temperature should be under 45°C and keep flat or stand up.

 Prevent tilting or side pressure during transportation, and cover it if necessary.

 Under normal storage and transportation conditions, the storage period is one year from the production date.



• CITIC Financial Center



• Huangguoshu Tourism Center



• Binzhou High-end Equipment Manufacturing Industrial Park



• Sanya Yalong Bay International Rose Valley Tourism and Leisure Center



• CRRC • Sharing City



• Jinan Public Health Clinical Center



• New Energy Intelligent Networking Experimental Base of FAW R & D Institute



• Zhengzhou Kerry Center



• Resettlement Community of Qishan