



## WEBERPROOF THERMOPLASTIC POLYOLEFIN (TPO) SHEET MEMBRANE

**WEBERPROOF THERMOPLASTIC POLYOLEFIN (TPO) SHEET MEMBRANE** consists of main TPO sheet, butyl self-adhesive layer and adhesive protective sand layer. The multilayer composite waterproof material is developed by using the excellent low temperature resistance, heat aging resistance and chemical corrosion resistance of TPO sheet, CKS special welding tape for polymer membrane KS-501 multifunctional node sealing paste and the excellent bonding, water resistance and UV aging resistance of butyl self-adhesive layer. After the waterproof membrane is paved, the structural concrete can be directly cast in situ. The liquid concrete slurry will produce crosslinking engagement with the butyl adhesive layer of the coiled material under the action of gravity, and produce physical adsorption and mortise and tenon effect during the cement curing process, so that the membrane and the structural concrete can be firmly bonded together to achieve the effect of reliable and full adhesion.

### PRODUCT SPECIFICATION

**Package:** 20m x 1m (20m<sup>2</sup>/Roll)  
(Welding lap)

**Thickness:** ≥ 1.2 ; 1.5 ; 1.7 ; 2.0 (mm)

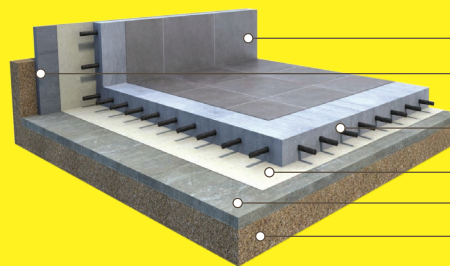
**Glue Color:** White

**Preserve:**

- The storage temperature shall not be higher than 45°C
- Avoid sun and rain and pay attention to ventilation.
- The stacking height of membrane shall not exceed 5 layers when they are placed horizontally, and they shall be stacked in a single layer when they are placed vertically;



### DESCRIPTION OF MEMBRANE



Finished surface  
Enclosure wall  
Precast concrete member  
TPO membrane  
Lean concrete/compacted rock  
Foundation soil

### PRODUCT FEATURES

- The pre paving anti sticking method is adopted for construction, and the waterproof membrane and concrete structure form an excellent full sticking effect, which is waterproof and reliable without water channeling.
- Based on TPO sheet, the membrane is soft and more close to the base surface of the node; Good high and low temperature resistance and excellent chemical corrosion resistance.
- Butyl self-adhesive layer has excellent aging resistance and water resistance, and can be used in complex underground environment for a long time.

## CONSTRUCTION PROCESS

1. Base course cleaning
2. Snap the line for positioning
3. Pave the waterproof membrane on the large surface
4. Overlap the membrane processing
5. Seal the detailed nodes
6. Self inspection, repair and acceptance
7. Bind the reinforcement

## SCOPE OF USE

Underground engineering floor and basement side wall with small construction space. Mining method tunnel.

## TRANSPORT & STORAGE

- During storage and transportation, products of different types and specifications shall be stacked separately and shall not be mixed. Avoid sun and rain and pay attention to ventilation. The storage temperature shall not be higher than 45°C, the stacking height of membrane shall not exceed 5 layers when they are placed horizontally, and they shall be stacked in a single layer when they are placed vertically;
- Prevent tilting or side pressure during transportation, and cover with tarpaulin if necessary
- Under normal transportation and storage conditions, the storage period is 1 year from the date of production.

## INSPECTION CRITERIA

Specifications	Quality level	Standard
Package size	1m x 20m (width x length)	-
Tensile strength	$\geq 8$ Mpa	ASTM D412-16
Elongation at break	$\geq 650$ %	ASTM D412-16
Tear resistance strength	$\geq 100$ N	ASTM D1004-13
Waterproof ability under hydrostatic pressure	$\geq 71$ m	ASTM D5385
Penetration resistance	$\geq 700$ N	ASTM E154/E154M-08a
Adhesion to concrete	$\geq 2$ N/mm	ASTM D903-98

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It is the user's responsibility to satisfy himself, by his own information and test, to determine the suitability of the product for his own intended use, application, and job situation and the user assumes all risk and liability resulting from his use of the product.

Weber does not suggest or guarantee that any hazard listed herein is the only one that may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss, or damage directly or indirectly resulting from using, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in the report and signed by a corporate officer of the manufacturer.

Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and products make no claim that these tests or any other tests, accurately represent all environments.