

## Wet-laid Polymer Reinforced Modified Bitumen Waterproof Membrane(type II)

### Description

The fully reinforced wet-laid system membrane is designed for horizontal and vertical external waterproofing applications and composed of high performance active additives and SBS modified bitumen with polymer film reinforced. It is wet-laid and adhered fully to concrete with using cement seamless adhesive. It is a strongly and permanently bonded seamless layer that protects against groundwater ingress as well as gases and chemicals, this will eliminate the potential of water penetration and leakage. It is wet-laid and installed without heat or open-flame.

### Features

- Outstanding adhesion to concrete and creep ability, fully sealed systems on overlaps
- Superior mechanical properties, tensile strength and elongation, resistant to chemicals
- Excellent protection against water infiltration, non-permeable to vapor and gas
- Time & cost saving on project schedule & budget, fast & easy installation

### Uses

For horizontally and vertically structures require protection against groundwater and seepage, such as basements, roofs, foundations, garages, residential and commercial buildings.



### Specification

Reinforcement	Polymer film
Upper surface materials	PE film
Lower surface materials	PE film
Thickness, mm	1.2, 1.5, 2.0
Width, m	1.0
Length, m	15, 20

### Technical Data: Executive Standard GB/T23457-2009

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2	Tensile properties	Tension, N/50mm $\geq$	200
		Elongation of maximum tension, % $\geq$	150
3	Thermal resistance, 70°Cx2h		No drift, no flow, no dripping
4	Low temperature flexibility, -25°C		No crack
5	Tear strength, N $\geq$		25
6	Oil permeability, Pieces $\leq$		2
7	Persistence adhesivity, min $\geq$		15
8	Imperviousness, 0.3MPa * 120 minutes		Impermeable
9	Peel strength with poured concrete after immersing water, N/mm $\geq$		1.5
10	Peel strength, membrane with membrane N/mm $\geq$	No treatment	1.0
		Thermal ageing	1.0
11	Peel strength with concrete N/mm $\geq$	No treatment	2.0
		Thermal ageing	1.5
12	Thermal stability	Appearance	No wrinkle, no flow, no dripping
		Dimensional change rate, % $\leq$	2.0
13	Thermal ageing 70°Cx168h	Retention of tension, % $\geq$	90
		Elongation retention, % $\geq$	80
		Low temperature flexibility, -23°C	No crack

**Packing**

Roll size: 1m or 2m x 10m

Rolls per pallet: 25 rolls/pallet

**Application instructions**

**Surface Preparation:** Substrates need to be clean, smooth, dry (Moisture <9%), no grit and free of sharp edges, loose or foreign materials, oil, grease and other materials that may damage the membrane. All surface voids greater than 5mm wide, shall be properly filled with an acceptable fill materials and level it.

**Application:** Mix the cement mortar well according to ratio from supplier, then apply the mixed cement mortar 3.0-5.0mm thickness on the substrate, start to lay the membrane at the lowest point to higher, fix one end of the membrane, remove the isolation film, and install it according to the line. Sheet edges must be overlapped a minimum of 60mm, end laps must be a minimum of 100mm, with upper sheets lapped over lower sheets, use the rubber drag roll to press the membrane well and push the air out.

**Inspection:** A thorough inspection is required after application, any bubbles, or breakage, repaired by unwounded 150mm sheet pressed well and sealed by sealant. Apply protection layer according to waterproof layer design after the membrane is installed to ensure the membrane is not left exposed to sunlight or UV radiation.

**Storage**

Inclination and lateral placement during transportation should be avoided. Be stored in well-ventilated places protected from sunlight and raining. The temperature in stored areas can not be higher than 50° C.

It can not be put in more than two levels. If packed by cartons, it can not be put in more than five levels. The normal shelf life is 1 year.

**Safety precautions**

Do not work in a rainy or snowy day, or heavy wind (above 5 grade). Unsuitable for construction when ambient temperature below 0°C. If it rains or snows in the construction, protective action to the laid membrane is a must.

During installation, exercise extreme caution when working with open flame; Examine all surfaces to which the flame has been applied for smoldering or burning conditions.

Do not use open flame on or near highly combustible materials. Follow all local fire codes.

Safety protection facilities and articles shall be well prepared, fire-fighting equipment shall be deployed according to regulation.