

DESCRIPTION

YHStick-9801 is a reinforced self-adhesive, fully bonded, post-applied, bituminous waterproofing sheet membrane in thicknesses of 3.0mm. It is comprises of a polyester non-woven fabric pre-coated with SBS-modified bitumen compound on both side, and with a PE film on the top side and with a release liner on the underside.

The membranes can be self-adhesively bonded to the prepared substrates, and it also can be wet-applied using adhesive mortar. The wet application method is tolerant of damp substrates.

The reinforced membrane has excellent puncture and impact resistance, and it is very effective to prevent the damage from the sharp object on the jobsite. The membrane must be protected with screed, reflective coating, drainage board, or protection boards to protect from UV radiation and backfilling damage.

WHERE TO USE

The product is designed for non-exposed applications: Basements, foundation, basement slabs, basement wall, podium slabs, and concealed roofs, especially for waterproofing works where naked flames are not allowed.

CHARACTERISTICS AND PACKAGING

Items	Description
Width (m)	1
Thickness (mm)	3.0
Length (m)	10
Roll Size (m ² /roll)	10
Upper Surface Material	PE film
Lower surface Material	Release film

ADVANTAGES

- Safe, easy and fast installation.
- No need for special equipment and flame.
- Excellent initial and long term adhesion.
- Direct application on wet substrate.
- Excellent mechanical resistant, such as high tensile strength, good puncture and tear, and high nail shank tear strength, good dimensional stability.
- Resistant to chemical corrosion: Resistant to most soil conditions, the membrane is designed to provide effective protection against soils and groundwater.

PROPERTIES

Technical Data Sheet (TDS)

2 / 3

Items	Test Methods	Values
Tensile Strength(MD/CD)[N/mm ²]	ASTM D412	≥8/≥8
Elongation at break (MD/CD)[%]	ASTM D412	≥30/≥30
Low temperature flexibility (-10°C)	ASTM D5147	No crack
Puncture Resistance[N]	ASTM E154	≥180
Tear Strength (MD/CD)[N/mm]	ASTM D624	≥200/≥200
Peel adhesive to concrete[N/mm]	ASTMD903-98 (2017)	≥1.5
Hydrostatic Pressure Resistance (100 psi)	ASTM D5385	No leakage
Watertightness (7bar,24h)	BS EN1928 Method: B	No leakage

Note: All values are based on test results determined under laboratory conditions and with product samples taken from original stock. Independent laboratory test values are available upon request.

APPLICATION INSTRUCTIONS

Surface Preparation: Surfaces should be structurally sound and free of voids, loose aggregate and sharp protrusions. Remove contaminants such as grease, oil and wax from exposed surfaces.

Priming: Before application, substrate should be sprayed or rolled with solvent/water-based primer fully.

Membrane Application:

- Application on the Horizontal Surfaces: Place the membrane to application area. Roll out or kick out the membrane to release the stress. Apply membrane from the low point to the high point so that laps shed water. Adjacent rolls are aligned and overlapped a minimum of 80mm at the side and ends with a roller or firm hand pressure to ensure complete adhesion and continuity between the layers. Stagger all the end laps. Roll the whole membrane firmly and completely to eliminate air pocket.
- Vertical Surfaces: Terminate the membrane at grade level. Press the membrane firmly to the wall. Failure to use heavy pressure at terminations can result in a poor seal. A termination bar may be used to ensure a tight seal.
- Protection: Keep the membrane clean and free outside damage.
- Backfill: Place backfill as soon as possible. Take care during backfill operation to avoid damage to the waterproofing system. Backfill should be added and compacted in 300 mm to 500 mm lifts. A protection of the membrane should be considered.

TRANSPORTATION AND STORAGE

Stored in well-ventilated and dry place. Avoid direct sunlight, rain, high temperature and fire. Storage temperature shall be below 45°C. Avoid contact with acids, alkalis, oils and organic solvents. membrane shall be placed horizontally less than five levels. Prevent slope, tilt or lateral drift, stamped felt cloth when necessary. Under normal storage and transportation condition, the shelf life is 12 months from the production date.

PRECAUTIONS

Technical Data Sheet (TDS)

3 / 3

Read the product label and Material Safety Data Sheet (MSDS) before using it. Users should acquaint themselves with all risks & safety regulations and conform to manufacturer's recommendations, material handling and storage specifications.

- Protect all materials from extreme temperature.
- Construction is strictly prohibited in rainy, snowy days and windy days above level 5.
- The temperature of construction environment should not be lower than 5°C.
- In case of precipitation during the construction, the protection work of the material shall be done well.
- Store and transport rolls in such a manner to prevent bending of the inner core and membrane edge damages.
- To prevent work interruption, it is important to have all the necessary tools and equipment on the job-site when you begin.

HEALTH AND SAFETY

Please read the safety manual carefully, our security experts will be pleased to give you advises about safety, health and environmental issues.

DISCLAIMER

The above information and recommendations which are based on our experience are as for reference, they can't replace the customers' own experimental results. Since our company, our representatives or distributors can't control the transportation, storage, handling and use conditions of the products, the economic disputes and the quality accident caused by improper use can't be attributed to our suggestions. In any application, the customer shall be responsible to comply with obligations of third-party intellectual property rights. Without our consent, anyone shall not provide technical information to third parties.