

DESCRIPTION

YHCoolRoof-2008 weather-durable self-adhesive waterproof membrane is a premium membrane designed to deliver excellent UV-resistant performance. It is composed of two waterproofing materials: a specially formulated rubberized asphalt adhesive combined with a high-performance composite film with UV-barrier technology. The rubberized asphalt surface is backed with a release liner. It is a cost-effective solution for exposed cool roof waterproofing application.

WHERE TO USE

YHCoolRoof-2008 is specifically designed as a durable exposed waterproofing membrane on flat or low-slope roofs with minimal pedestrian traffic. It is ideally suited for the refurbishment of concrete roofs, metal roofs, bitumen membrane roofs, and other roof waterproofing applications.

CHARACTERISTICS AND PACKAGING

Items	Description
Packaging	Roll
Width (m)	1
Thickness (mm)	1.0
Length (m)	20
Roll Size (m ² /roll)	20
Upper Surface Material	Weather-resistant film
Lower Surface Material	Release film

ADVANTAGES

- **Weather Resistance:** With stands 1500h of artificial accelerated aging.
- **Energy Efficient:** Excellent solar and radiant heat reflection capabilities make roofs more energy-efficient and environmentally friendly.
- **High Tear Resistance:** Strong resistance to damage, ideal for challenging outdoor environments.
- **Easy Application:** Self-adhesive material, easy to apply, safe, and environmentally friendly.

PHSICAL PROPERTIES

Items	Test Methods	Values
Tensile Strength (L/T)[N/50mm]	BS EN 12311-2	≥1000/≥900
Elongation at break (L/T)[%]	BS EN 12311-2	≥2.5/≥2.5

Puncture Resistance [N]	ASTM E154/E154M-08	≥900
Water Vapour Transmission[g/(m ² ·hr)]	ASTM E96/E96M-22	≤0.3
Static Crack Bridging(3.2mm)	ASTM C1305/C1305M-16	No crack
Lap Peel Adhesion[N/mm]	ASTM C1876-02	≥4.5
Resistance to static loading(20kg)	BS EN 12370:2015-Method B	Pass
Tear Strength (L/T) [N/mm]	ASTM D624-00 (2020)	≥9/ ≥10
Resistance to Hydrostatic Head(7 bar)	EN 1928:2000-Method B	No leakage
Peel Adhesion to Concrete[N/m]	ASTM D3767-03 (2020)	≥2000

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

- **Substrate preparation:** The surface should be cleaned, and the surface should be solid, flat, dry, clean, and free of debris. Remove dust, dirt, loose nails, and old roofing materials. Protrusions from the deck area must be removed. Decks shall have no voids, damaged, or unsupported areas. Repair deck areas before installing the membrane.
- **Primer application:** Before application, substrate should be sprayed or rolled with solvent or water-based primer fully.
- **Strengthen layer application:** Strengthen layer should be applied at the in-corners and out-corners, post-cast strips, penetrations, deformation joints and other details, and the membranes of pre-cut size and shape should be applied on the substrate.
- **Membrane application:** Remove the release liner and applying the self-adhesive face onto the substrate to ensure a good initial bond. 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. The membrane should be terminated with weather-resistant sealant.
- **Lapping joints application:** The lateral lap and end lap width should be at least 80mm. It is recommended to cover the overlap with butyl adhesive tape to improve the watertightness. The termination shall be sealed with weather-resistant sealant.
- **Repair of damaged membrane:** Clean any punctured or damaged areas and patch them using membrane. Ensure a minimum 50mm lap all around the damaged area.

TRANSPORTATION AND STORAGE

- During transportation and storage, products of different types and specifications should be stacked separately and should not be mixed.
- Stored in well-ventilated and dry place. Avoid sunlight and rain. The storage temperature should not be higher than 45°C. Store in a vertical position. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage.
- Prevent tilting or lateral pressure during transportation, and cover it with tarpaulin if necessary.

- Under the regular transportation and storage conditions, the shelf life is 12 months from the date of production.

PRECAUTIONS

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 ambient temperature should not be lower than 5°C. When the substrate temperature is extremely low in winter, it can be heated with the help of a hot air gun.
- Lapping joint surface should be covered with weather resistant sealant, butyl adhesive tape or cement mortar.
- 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.