



MATERIAL SAFETY DATA SHEET (MSDS)

Self-Adhesive Bitumen Membrane

Product Type: Self-Adhesive Waterproofing Membrane

Product Description: Polymer-modified bituminous waterproofing membrane with a self-adhesive backing, typically reinforced and surfaced with polyethylene film, aluminum foil, mineral finish, or other protective facing.

1. Identification of the Product and Company

Product Name: Self-Adhesive Bitumen Membrane

Product Use: Waterproofing and moisture protection for roofs, foundations, basements, walls, terraces, tunnels, concrete structures, and other construction applications.

Recommended Use: Waterproofing membrane for construction applications.

Restrictions on Use: Use only for intended waterproofing and construction purposes.

2. Hazards Identification

Classification

Under normal conditions of storage, handling, and installation, the finished self-adhesive membrane is generally considered a low-hazard solid article.

Main Hazards

- Heated material may cause thermal burns.
- Cutting or installation may create minor dust or particles from surface materials.
- Prolonged skin contact with the adhesive bituminous surface may cause mild irritation.
- Combustion or excessive heating may generate irritating smoke and decomposition products.
- The membrane may be slippery when placed on walking surfaces.

Precautionary Measures

- Wear suitable protective gloves during handling and installation.
- Avoid contact with hot or molten bitumen.
- Keep away from open flames and excessive heat.
- Ensure adequate ventilation when installing in enclosed areas.

3. Composition / Information on Ingredients

The product is a manufactured waterproofing membrane consisting primarily of:

Component	Typical Content
Bitumen / Asphalt	40–70%
Polymer modifiers (SBS or equivalent)	3–15%
Mineral fillers	10–30%
Reinforcement / carrier	0–15%
Polyethylene film / release liner / surface layer	1–10%



Component	Typical Content
Tackifiers and additives	<10%

Note: Actual composition varies according to membrane grade, thickness, reinforcement, and surface finish.

4. First Aid Measures

Inhalation

Under normal use, inhalation exposure is unlikely. If fumes from excessive heating are inhaled, move the affected person to fresh air. Seek medical attention if symptoms persist.

Skin Contact

Wash exposed skin with soap and water. Do not use solvents to remove bituminous material from skin.

For contact with hot or molten material, immediately cool the affected area with clean running water. Do not attempt to remove adhered material from burned skin. Seek medical attention.

Eye Contact

If dust or particles enter the eyes, rinse carefully with clean water for at least 15 minutes. Remove contact lenses if easy to do. Seek medical attention if irritation persists.

Ingestion

Ingestion is unlikely due to the physical form of the product. If swallowed, rinse mouth and seek medical advice if discomfort occurs. Do not induce vomiting unless directed by medical personnel.

5. Fire-Fighting Measures

Suitable Extinguishing Media

- Dry chemical powder
- Carbon dioxide (CO₂)
- Foam
- Water fog

Unsuitable Extinguishing Media

Do not use a high-pressure water jet directly on burning molten bituminous material.

Specific Hazards

Combustion may produce:

- Carbon monoxide
- Carbon dioxide
- Smoke
- Hydrocarbon decomposition products
- Irritating fumes

Protective Equipment

Firefighters should wear appropriate protective clothing and self-contained breathing apparatus when required.

6. Accidental Release Measures



As the product is supplied as a solid membrane, accidental release is generally not applicable.
For damaged or discarded material:

- Collect mechanically.
- Avoid creating unnecessary dust.
- Keep material away from drains and waterways.
- Place waste in suitable containers for disposal.
- Dispose of according to local regulations.

7. Handling and Storage

Handling

- Handle rolls carefully to prevent damage.
- Wear suitable gloves and safety footwear.
- Avoid unnecessary contact with the adhesive surface.
- Do not expose the membrane to open flames.
- Follow proper manual handling procedures for heavy rolls.
- Use appropriate cutting tools safely.

Storage

- Store in a cool, dry, covered, and well-ventilated location.
- Protect from direct sunlight, rain, and excessive heat.
- Keep away from ignition sources.
- Store rolls vertically unless otherwise specified by the manufacturer.
- Avoid stacking beyond the recommended height.
- Recommended storage temperature is generally **5°C to 35°C**, depending on product formulation.

8. Exposure Controls / Personal Protection

Engineering Controls

No special ventilation is normally required for outdoor installation. Provide adequate ventilation when working in enclosed areas.

Personal Protective Equipment

Eye Protection: Safety glasses recommended during cutting and installation.

Hand Protection: Suitable protective work gloves.

Skin Protection: Normal construction work clothing.

Foot Protection: Safety footwear.

Respiratory Protection: Normally not required. Appropriate respiratory protection may be required if smoke, fumes, or excessive dust are generated.

Hygiene Measures

Wash hands after handling and before eating, drinking, or smoking.

9. Physical and Chemical Properties

Property	Typical Information
Physical State	Solid flexible sheet / roll



Property	Typical Information
Appearance	Black bituminous membrane with protective surface/release film
Odor	Mild characteristic bituminous odor
Color	Black / surface dependent
Solubility in Water	Insoluble
Water Resistance	Excellent
Relative Density	Typically >1
Flammability	Combustible under sufficient heat
Flash Point	Not normally applicable to finished solid membrane
Boiling Point	Not applicable
Vapor Pressure	Negligible under normal conditions
VOC Content	Low / formulation dependent
Thickness	Product dependent, typically 1.0–4.0 mm

10. Stability and Reactivity

Chemical Stability: Stable under recommended storage and handling conditions.

Hazardous Reactions: No hazardous polymerization expected.

Conditions to Avoid:

- Open flames
- Excessive heat
- Prolonged exposure to high temperatures
- Strong oxidizing conditions

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, smoke, and various hydrocarbon decomposition products may be produced during combustion.

11. Toxicological Information

Acute Toxicity

Low toxicity expected under normal conditions of use.

Skin Irritation

Prolonged or repeated contact with the adhesive bituminous surface may cause mild irritation in sensitive individuals.

Eye Irritation

Dust or small particles generated during cutting may cause mechanical irritation.

Inhalation

Not considered a significant exposure route under normal installation conditions. Fumes generated by excessive heating or burning may irritate the respiratory system.

Ingestion

Not considered a likely route of occupational exposure.



12. Ecological Information

The finished membrane is not expected to present a significant environmental hazard under normal use.

- Insoluble in water.
- Avoid disposal into drains, soil, rivers, or waterways.
- Bituminous components may persist in the environment.
- Dispose of waste responsibly according to applicable regulations.

13. Disposal Considerations

Dispose of unused membrane, damaged rolls, release liners, packaging, and installation waste in accordance with local waste regulations.

Where permitted, clean uncontaminated material may be disposed of as construction waste or sent for appropriate recycling/recovery.

Do not burn the product in uncontrolled conditions.

14. Transport Information

The finished self-adhesive bitumen membrane is generally **not regulated as dangerous goods** for normal transport, subject to the exact formulation and applicable jurisdiction.

UN Number: Not normally applicable

UN Proper Shipping Name: Not regulated

Transport Hazard Class: Not regulated

Packing Group: Not applicable

Marine Pollutant: Generally no

Always verify transport classification against the specific product formulation and applicable ADR/RID, IMDG, and IATA requirements.

15. Regulatory Information

The product should be handled and used in accordance with applicable occupational health, safety, environmental, construction, and chemical regulations in the country of use.

Because regulatory classification depends on the exact formulation and jurisdiction, the manufacturer or supplier should verify the final SDS classification before commercial issue.

16. Other Information

Product: Self-Adhesive Bitumen Membrane

Application: Waterproofing and moisture protection

Document Type: Material Safety Data Sheet (MSDS/SDS)

Disclaimer

The information provided in this MSDS is based on typical characteristics of self-adhesive bituminous waterproofing membranes and is intended as general guidance for safe handling, storage, transportation, and use.

Actual formulations may vary between manufacturers and product grades. Therefore, this document should be reviewed and adjusted according to the exact product composition,



applicable test data, and local regulatory requirements before being issued as an official manufacturer SDS.

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