

Product Data Sheet
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Identification no. UNMEL022
MELTGARD

MELTGARD[®]

Hot Applied Membrane

Description	MELTGARD is hot applied, rubberized single component, elastomeric bitumen modified with SBS and additives. It forms a highly elastic film that adheres extremely well to concrete substrates. MELTGARD high performance membrane is manufactured using the most advanced materials and manufacturing techniques to achieve exceptional levels of performance and reliability for structural waterproofing applications. MELTGARD consists of elastomeric bitumen modified with SBS (Styrene Butadiene Styrene) that ensures stability and flexibility giving excellent long-term tolerance to water and temperature extremes, for exceptional mechanical strength and stability.
Where to Use	• Built up roofing systems • Roofs • Podium decks • Planter boxes
Advantages	• Single component, hot applied, highly resistant to de-icing salts • Excellent protection for concrete • Designed for heavy duty applications • Water & Chemical resistant • Good Elasticity: Withstands structural movements • Non-flammable, non-toxic • Resistant to dilute chemicals • Environment friendly • Forms a seamless layer • Exceptional flexibility and elongation • High bonding strength to substrate, no migration of water • Resistant to wide range of temperatures
Standards	MELTGARD conforms to the following standards: ASTM D 6690, ASTM D 5167, ASTM D 5329, ASTM D 1353, ASTM D 5147, ASTM D 2939, ASTM D 896, and ASTM E 96. etc
Packaging	MELTGARD is supplied in 25kg paper bags.

How To Use
Surface
Preparation

The surface to be waterproofed is to be clean, dry and dust free. All mold oil, protruding nibs and nails must be removed. All screed must be clean and dry. The surface shall be cleaned thoroughly of all contaminants like dust, traces of curing compound, oil, grease. All surface imperfections and protrusions are to be removed and repaired. Structurally unsound and friable concrete must be removed and repaired with a suitable concrete repair mortar. Concrete must be allowed to cure a minimum of 14 days prior to application.

Preparation
work

The surface should be cleaned and prepared to achieve a laitance and contaminant free, smooth texture surface by utilizing the mechanical means necessary. A coat of primer must be applied to the concrete surface. Prime the concrete surface with UNIPRIME SB after surface preparation, using airless spray gun, brush or roller. Primer should be applied carefully so that no spot will be left uncoated and no excess primer left. The application of MELTGARD should be carried out once the primer is cured.

How To Use
Application

MELTGARD blocks shall be melted in a hot-air, double-jacketed melter fitted with a mechanical agitator to provide indirect heating. An oil-bath melter is also suitable. Maintain the elastomeric bitumen temperature between 160–180°C. Direct flame heating is not recommended. Remove MELTGARD blocks from their packaging and load slowly to minimize splashing. Once the material reaches the recommended pouring temperature, open the discharge tap and fill clean steel buckets. Do not allow the kettle temperature to exceed 200–215°C, as excessive heating may cause jellification. Pour the hot MELTGARD onto the prepared and primed substrate and spread evenly using a squeegee. Apply the first coat at 2.5mm thickness and immediately embed Unimesh MG reinforcement while the coating remains warm and tacky. Apply the second coat at 3mm thickness and install Uniseal Tight 3mm protection board while still tacky. On vertical surfaces, apply MELTGARD to a total thickness of 4mm. Verify waterproofing integrity by 24-hour flood testing or electronic field vector mapping.

Technical Data

Heating Temperature	200 - 215°C	ASTM D 6690
Pouring Temperature	160 - 180°C	ASTM D 5167
Cone Penetration @ 25°C	110 max. dmm	ASTM D 5329
Flow	Nil	ASTM D 5329
Solid Content	100%	ASTM D1353
Low Temperature Flexibility	-18°C	ASTM D 5147
Water Resistance	No delamination of blistering	ASTM D 2939
Elongation Compound@ 25°C	1000 min. %	ASTM D 5329
Recovery @ 25°C	95 min. %	ASTM D 5329
Resistance to Salts & Acids	Pass	ASTM D 896
Water Vapour Transmission	<0.10 g/m ² /24hrs	ASTM E 96

The technical data given above are average values the results of which were carried out on the membrane under normal laboratory conditions and are subject to ±20% tolerance. These tests are the Industry Standard for this type of material and comply with the criteria stipulated in ASTM standards. Uniroof reserves the right to change or modify the data without prior notice.

Storage & Shelf Life

The shelf life of MELTGARD is up to 24 months if stored as per the recommendations. Store at temperatures between 5°C and 45°C in unopened original containers protected from direct sunlight and frost. Store in shaded warehouses away from heat, humidity or moisture.

Health & Safety

The extremely hot material will cause severe burns on contact with skin. PPEs like hard hats with face shield, long sleeved shirt buttoned at the wrist, heat resistant gloves, long and cuffless pants and safety toed work boots are recommended with application of MELTGARD. Make certain all area around melter is clear of all debris and flammable materials. Avoid breathing vapors. Use with adequate ventilation.

Limitations

For detailed information on application procedures, specific project requirements, and warranty details, please contact Uniroof territory rep. Always refer to the latest version of this Product Data Sheet and relevant project specifications before commencing work. This system is not recommended over light weight insulated concrete.

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