



OPERATIONS & MAINTENANCE MANUAL

WALLBARN PROTECTO-MATT RUBBERCRUMB



Please see Wallbarn Ltd Terms & Conditions of Supply – SEE APPENDIX

PRODUCT DESCRIPTION

WALLBARN RUBBER PROTECTO-MATT is an ecological carpet specifically designed to provide temporary or permanent protection for synthetic and bituminous waterproofing membranes. It acts as a barrier against potential damage caused by blunt materials, backfilling, or concrete castings.

This product offers several benefits, including water permeability, reusability, and full recyclability. It can be conveniently placed beneath rooftop planters and equipment to prevent damage, minimize acoustic transmission, and offer anti-vibration properties.

By using WALLBARN RUBBER PROTECTO-MATT, the risk of membrane perforation during roofing completion and subsequent activities is significantly reduced. This ensures the longevity of the membrane, providing added peace of mind.

The mat is composed of natural and synthetic elastomeric compounds with a density of 950 kg/m³. It incorporates polyurethanes polymerized in mass, which bind the materials together. Furthermore, WALLBARN RUBBER PROTECTO-MATT contributes to sustainability efforts by utilizing recovered materials, specifically from used tires (PFU).

FEATURES

1. Excellent mechanical protection of the waterproofing membrane
2. Easy to install
3. Immediately trafficable after installation
4. Excellent mechanical resistance to the impact by blunt materials
5. High dimensional stability in the presence of permanent loads (driveway roofs and floors, green roofs, foundations)
6. Strong resistance to abrasion and tearing
7. Rot-proof, resistant against mold and moisture
8. Eco-friendly because it is made with recycled rubber
9. Cost effective, thanks to its ease of installation
10. A variety of thickness are available. Standard products are 3mm and 6mm.



TECHNICAL DATA

DESCRIPTION	M.U.						NORMS	TOLE-RANCES
Rubber thickness	mm	2	3	4	5	6	EN 13849-1	± 10%
Rubber density	Kg/m ³	950						± 7%
Elongation at break	%	35					EN ISO 1798	± 5%
Tensile strength	N/mm ²	0.9					EN ISO 1798	± 2%
Static punching *	Kg	30	30	35	40	45	EN 12730 met B	min
Dynamic punching *	mm	≥2250	≥2250	≥2250	≥2250	≥2500	EN 12691 met. A	min
Heat resistance (prolonged period)	°C	Up to + 90						-
Heat resistance (compromised point)	°C	+130						
Heat resistance (disintegration point)	°C	+160						
Ignition Point	°C	+300						-
Cold resistance (prolonged period)	°C	Up to -30						
Cold resistance (compromised point)	°C	-120						
Fire rating		B2					DIN 4102	-
SHORE A hardness		50						± 10%

* No drilling

THERMAL PERFORMANCES

DESCRIPTION	SYMBOL	M.U.	VALUE	NORMS	NOTES
Thermal conductivity	(λ)	W/mK	0,1226	UNI EN 12667:2002	Cert.n° 078-09-the TR

CHEMICAL PERFORMANCES

CHARACTERISTIC	PERFORMANCES
Resistance to microbes	Resistant to fungi, insects and microbes attacks
Chemical interactions	Highly resistant to acids and alkaline detergents, rot-proof
Electrostatics	Does not accumulate static charge and prevent interaction between materials
Eco-sustainability	100 % recyclable

INSTALLATION

Before proceeding with the installation of flooring over rubber roofing membranes, it is crucial to assess the condition of the membrane. Carefully inspect the membrane to ensure there are no tears or holes present. Performing a thorough examination and conducting proper maintenance of the roofing membrane prior to installation will help prevent future issues related to leakage.

It is important to note that installing flooring over a high-quality and well-installed roofing membrane should enhance its effectiveness.

*** If you are planning to use Rubber Crumb, always seek the advice of the waterproofing membrane manufacturer for compatibility with the waterproofing membrane and also for the best method to cover / bond the protection to the membrane.**

HORIZONTAL FIXING

Rubber crumb Protecto-mat is loose laid over the compatible membrane and either covered straight away with another layer, pressed into the still tacky heated membrane or spot bonded using compatible adhesive or part of the membrane. For concrete pour, rolls must be fitted securely to the next, overlapping the rolls by approximately 8cm.



VERTICAL FIXING (bituminous membranes only)

Apply Wallbarn Rubber Crumb Protecto-Mat onto the vertical surface with a strong, compatible adhesive. Start from the top of the vertical surface and work downwards.

Press into the membrane firmly so it adheres properly.

Butt each roll to the previous one, so that there are no gaps between the panels. A slight overlap can be made (max 1 cm.) It can be easily cut using a sharp knife and shaped around particular corners and details. Protecto-Mat is very flexible so is ideal for protecting membranes around curved surfaces, drainage outlets, rooflights and upstands.

This membrane is completely rot-proof. It can be immersed in water without risk of delaminating or compromising its performance.



PRODUCT INFORMATION

<https://www.wallbarn.com/protection-drainage/protection/>

DIMENSIONS AND PACKAGING



	M.U.	VALUE					TOLERANCES
Thickness	mm	2	3	4	5	6	± 10%
Roll height	m	1	1	1	1	1	± 2%
Roll length **	m	18	15	12	10	8	± 1%
Weight per m ²	Kg/m ²	1,9	2,25	3	3,75	4,5	± 7%
Number of rolls per pallet	pcs	16	16	16	16	16	
Total area per pallet	m ²	288	240	192	160	128	
Pallet Dimensions	Cm	100x120x100+10					

***Wallbarn Rubber Crumb is available in above sizes but only 3mm & 6mm are stock items.**

Wallbarn Rubber crumb is delivered on pallets and due to it's weight, it is necessary for offload facilities to be available on site.

MAINTENANCE DETAILS

Protecto-Mat can be covered and not disturbed in the long-term as a permanent protection layer. It can also be used as temporary protection against compression, mechanical abrasion and against foot traffic on site. When cleaning, please ensure no chemicals that are likely to react / damage the waterproofing membrane beneath are used.

Protecto-Mat can be taken up and reused on different areas which require protection. Wallbarn recommends that Protecto-Mat is reused on construction sites where possible.

HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]: Not applicable to articles

Adverse physicochemical, human health and environmental effects : To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

Label Elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] : No labelling applicable

Other Hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Composition/Information on Ingredients

The product is a membrane made of a mat made up of natural and synthetic elastomeric compounds bound by mass-polymerized polyurethanes.

FIRST AID MEASURES

Description of First Aid Measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.

Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : None under normal conditions.
Symptoms/effects after skin contact : None under normal conditions.
Symptoms/effects after eye contact : None under normal conditions.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide (CO₂)

Special hazards arising from the product

Hazardous decomposition products in case of fire : Toxic fumes may be released.

Advice for Firefighters

Protective equipment for firefighters: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For Non-Emergency Personnel

Emergency procedures : Ventilate spillage area.

For Emergency Responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Environmental Precautions

Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

HANDLING & STORAGE

Precautions for safe handling

Precautions for safe handling :Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures :Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Conditions for safe storage

Storage conditions : Store in a well-ventilated place. Keep cool.
Incompatible materials : None known.

Exposure Controls

Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Personal protection equipment

Eye protection: Where excessive dust may result, wear goggles. EN 166
Skin protection: Wear suitable protective clothing
Hand protection: In case of repeated or prolonged exposure : Wear protective gloves. Breakthrough time : > 480 min. Layer thickness : > 0,11 mm. EN 374
Respiratory protection: Dust formation: dust mask. In case of insufficient ventilation, wear suitable respiratory equipment (EN 136/140/145)
Thermal hazards: No additional information available
Environmental exposure controls : Avoid release to the environment.

PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state:	Solid
Colour:	Black with brown granules.
Odour :	Odourless.
Odour threshold:	Not determined
Melting point:	Not determined
Freezing point:	Not determined
Boiling point:	Not determined
Flammability:	Non flammable.
Explosive limits:	Not applicable
Lower explosion limit:	Not applicable
Upper explosion limit:	Not applicable
Flash point:	Not applicable
Auto-ignition temperature:	> 250 °C
Decomposition temperature:	> 250 °C
pH:	Not applicable
pH solution:	Not determined
Viscosity, kinematic :	Not applicable
Solubility:	Insoluble in water.
Partition coefficient n-octanol/water (Log Kow):	Not determined
Vapour pressure:	Not determined
Vapour pressure at 50°C:	Not determined
Density:	< 1 g/cm ³
Relative density:	Not determined
Relative vapour density at 20°C:	Not applicable
Particle size:	Not determined
Particle size distribution:	Not determined
Particle shape:	Not determined
Particle aspect ratio :	Not determined
Particle aggregation state:	Not determined
Particle agglomeration state:	Not determined
Particle specific surface area:	Not determined
Particle dustiness:	Not determined
Physical state:	Solid

STABILITY AND REACTIVITY

Reactivity :	The product is non-reactive under normal conditions of use, storage and transport.
Chemical Stability:	Stable under normal conditions.
Possibility of hazardous Reaction:	No dangerous reactions known under normal conditions of use.
Conditions to avoid :	None under recommended storage and handling conditions (see section 7).

Incompatible materials : Strong oxidizing agents.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

TOXICOLOGICAL INFORMATION

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified
Skin corrosion/irritation : Not classified
pH: Not applicable
Serious eye damage/irritation : Not classified
pH: Not applicable
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

Viscosity, kinematic : Not applicable

Information on other hazards

No additional information available

ECOLOGICAL INFORMATION

Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term(chronic) : Not classified

Persistence and degradability : Not biodegradable.

Bioaccumulative potential : Not determined.

Mobility in soil : Not determined

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Endocrine disrupting Properties : No additional information available

Other adverse effects : No additional information available

Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

EU-Regulations REACH Candidate List (SVHC) :Contains no substance(s) listed on the REACH Candidate List

Chemical safety assessment : No chemical safety assessment has been carried out

**A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis

WARRANTIES

A limited warranty exists that the products will comply with the test data as laid out earlier in document. Warranty is limited to replacement of products which have been installed in the correct manner and for the correct purpose only. Warranty is limited to the value of the cost price of the materials only, not replacement costs or any other labour cost.

TRANSPORT INFORMATION

Classification for conveyance: - None required.

KEY CONTACTS

Wallbarn Ltd.

Unit 16 Capital Business Centre, 22 Carlton Road, South Croydon CR2 0BS Tel: +44 (0)208 916 2222 Fax: +44 (0)208 916 2223

Email: sales@wallbarn.com Web: www.wallbarn.com

APPENDIX A:

The following table summarizes the documents and URLs referenced in this document.

Document Name	Location
Protecto-Mat website URL	https://www.wallbarn.com/protection-drainage/protection/
Wallbarn Ltd Terms & Conditions	https://www.wallbarn.com/terms-conditions-of-supply/



LIMITED WARRANTY

Date: 1st January 2023

Wallbarn Ltd provides a limited warranty of 15 years for products. This Warranty corresponds to the performance and strength characteristics given in the published technical datasheets. Wallbarn Ltd warrants that, under normal use and service conditions, and where the products have been installed in the proper manner, Wallbarn Ltd products shall be free from material defects in workmanship and materials, shall not crack, splinter, swell, rot or suffer structural damage from damp or fungal decay.

If a defect occurs within the Warranty Period, the Purchaser shall notify Wallbarn Ltd in writing and, after investigation and confirmation of the defect(s) by a Wallbarn Ltd representative, Wallbarn Ltd's sole responsibility shall be limited to replacement of the affected products or to refund the Purchaser up to the maximum value of the Sales Invoice.

This warranty is null and void if:

- The products are not installed in the proper manner as detailed in official Wallbarn Ltd product catalogues, installation guides and technical datasheets.
- The products are not used for the purposes they are intended, as detailed in official Wallbarn Ltd product catalogues, installation guides and technical datasheets.
- Excessive weights, higher than the maximum weight as detailed in official Wallbarn Ltd product catalogues, installation guides and technical datasheets are placed onto the products.
- The products are installed in contravention of any relevant building regulations, code or standards.
- Any relevant building regulations, code or standards, including fire safety regulations are breached on the project during the construction process.
- There is movement, distortion, collapse or settling of the supporting structure on which Wallbarn Ltd products are installed.
- Any abnormal natural event such as flooding, hurricane, earthquake, lightning, etc, occurs.

Wallbarn Ltd – Limited Warranty

This limited warranty does not cover any living product or any product which sustains life. This includes sedum and other plants and substrate mixes for M-Tray® and any other green roof system. The living and growing elements of M-Tray® and other green roof systems are specifically excluded from this Warranty.

This Warranty is limited to the maximum amount of the Sales Invoice and Wallbarn Ltd is not liable for any costs of examination, removal or installation of products. Wallbarn Ltd will not be responsible for any costs or expenses incurred during removal and replacement, including labour or transport costs.

This warranty is given only if the products are used for the purposes they are intended, as detailed in official Wallbarn Ltd product catalogues, installation guides and technical datasheets and are installed in the correct manner.

To make a claim under this Limited Warranty, the Purchaser should contact Wallbarn Ltd with a full report of the defects within the Warranty Period, including photographic evidence and proof of purchase. Any claim should be made to sales@wallbarn.com as soon as possible by the Purchaser.

Our Terms & Conditions of Supply <https://www.wallbarn.com/terms-conditions-of-supply/> can be found here.



Wallbarn Ltd :
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South Croydon : CR2 0BS
www.wallbarn.com