

Safety Data Sheet

Bituminous Roofing Membranes

Sheet No: M034FR Issued: 25/08/2017

Revision: 4 1st Issue: 23/06/2016

Pages: 1 of 12

1. Identification of the substrate/preparation and of the company/undertaking

1.1. Product identifier

Trade name/designation : Bituminous Roofing Membranes
The products covered in this data sheet are listed in the table in section 3.3

1.2. Relevant identified uses of the substance or mixture and uses advised against

Main use category : Roofing membranes.

1.3. Manufacturer/Supplier

Supplier:

Alumasc Exterior Building Products Ltd
White House Works, Bold Road, Sutton, St Helens, Merseyside, WA9 4JG. United Kingdom
Tel: +44 (0)1744 648400 E-mail: roofing@alumasc-exteriors.co.uk

1.4. Emergency telephone number

Emergency telephone : Alumasc 01744 648 400
(Mon-Thur - 08.30-17.00 Fri - 08.30-16.00)

2. Hazards identification

2.1 Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008

CLP-Classification : The product is non-dangerous in accordance with Directive 1272/2008/EEC

Not classified

2.1.2. Classification according to EU Directives 67/548/EEC or 1999/45/EC

Classification : The product is an article and is not subject of Directive 67/548/EEC or Directive 1999/45/EC. Not classified

2.2 Label elements

2.2.1. Labelling according to Regulation (EU) 1272/2008

Not applicable.

2.3 Other hazards

Under normal conditions of use, this product is not expected to create any unusual emergency hazards. Due to product form, exposure to dusts and fumes is not expected to occur.

Safety Data Sheet

Bituminous Roofing Membranes

Sheet No: M034FR Issued: 25/08/2017

Revision: 4 1st Issue: 23/06/2016

Pages: 2 of 12

3. Composition and information about the components

3.1 Substances

Not applicable, products are articles.

3.2 Mixtures

The products are not mixtures under the CLP Regulation (EC) No 1272/2008, but are considered to be articles. The products in the range consist of a reinforcing base material coated with bitumen and a surface finish. The base materials include polyester, glass/polyester and glass fibres in sheet form, some used in conjunction with aluminium foil. The bitumen coating may contain mineral filler and/or synthetic polymers. The fire performance cap sheets have an inert graphite coating on the upper surface of the base carrier and the fire performance vapour control layers have a fire retardant modified bitumen coating. The surface finish may be sand, talc, mineral granules or polymeric film.

Derbigum Anti-Root

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-ethylhexyl-(+)-(R)-2-(4-chloro-2-methylphenoxy)propionate	(CAS No.) 861229-15-4 (EC No) - (EC Index) -	< 0,3	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Safety Data Sheet Bituminous Roofing Membranes

Sheet No: M034FR Issued: 25/08/2017

Revision: 4 1st Issue: 23/06/2016

Pages: 3 of 12

3.3 Products covered

Product Name	Application			Surface				Aluminium foil core
	Self-adhesive	Thermo-adhesive	Torch-on	Plain Surface	Mineral surface	Sanded surface	Talc Surface	
BluRoof Cap Sheet			✓				✓	
Derbicoat NT			✓	✓				
Derbicoat NT Alu			✓	✓				✓
Derbicoat Selfix HP	✓			✓				
Derbigum Anti-Root			✓				✓	
Derbigum Mineral/Olivine			✓		✓			
Hydrogard Protection Sheets					30 and 40	10 and 20		
Derbigum Black/NT			✓				✓	
Eurorooft Dual Bond Vapour Barrier	✓			✓				✓
Eurorooft Mastergold Anti-Root			✓		✓			
Eurorooft Mastergold Mineral			✓		✓			
Eurorooft Mastergold Underlay (including venting underlay)			✓			✓		
Eurorooft Mono	P.U. Adhesive				✓			
Eurorooft Rapid			✓		✓			
Eurorooft Self-adhesive cap sheet	✓				✓			
Eurorooft Self-Adhesive Underlay	✓			✓				
Eurorooft Self-Adhesive Vapour Barrier	✓			✓				✓
Eurorooft SupaGOLD cap sheet			✓		✓			
Eurorooft SupaGOLD underlay			✓			✓		
Eurorooft Thermo-Adhesive Underlay		✓		✓				
Eurorooft Thermo-Adhesive Vapour Barrier		✓		✓				✓
Derbigum Alu Selfix SKT	✓			foil faced				✓
Eurorooft Torchtite Vapour Barrier			✓	✓				✓
Hi-Ten Universal			✓			✓		

Safety Data Sheet

Bituminous Roofing Membranes

Sheet No: M034FR Issued: 25/08/2017

Revision: 4 1st Issue: 23/06/2016

Pages: 4 of 12

4. First-aid measures

4.1 Description of first aid measures

EYE CONTACT	: For contact with cold material, e.g. small particles, wash thoroughly with water and obtain medical attention if signs of discomfort persist. In case of contact with hot material, flood eye with copious quantities of cold water for 10-15 minutes. Do not try to remove material adhering to the eye. Cover the burn area loosely with a sterile dressing, if available. Seek immediate medical attention.
SKIN CONTACT	: For contact with hot material, cool the affected area under cold running water for at least 10 minutes. Do not attempt to remove anything from the burn area or apply burn creams or ointments. Material adhering to skin will form a sterile barrier which will fall off after a few days. Cover the burn area loosely with a sterile dressing, if available. Seek immediate medical attention.
INHALATION	: In case of inhalation of fumes, remove from exposure. If breathing becomes difficult, put victim at rest, cover with a blanket and keep warm, seek medical assistance.
INGESTION	: No adverse effects are expected. If swallowed, rinse mouth with water (only if the person is conscious). Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Eyes	: Particulates produced from cutting, grinding or drilling of the product may cause mechanical irritation of the eye. Hot melt products may cause thermal burns.
Skin	: This product may produce skin abrasions. Mechanical rubbing may increase skin irritation. Hot melt products may cause thermal burns.
Ingestion	: Not a likely route of entry.
Inhalation	: Inhalation of dusts produced during cutting, grinding or sanding of this product or fumes from hot melt products may cause irritation of the mouth and nose and coughing.

Safety Data Sheet

Bituminous Roofing Membranes

Sheet No: M034FR Issued: 25/08/2017

Revision: 4 1st Issue: 23/06/2016

Pages: 5 of 12

4.3 Indication of any immediate medical attention and special treatments needed

When in doubt or if symptoms are observed, get medical advice.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media : Extinguishing powder, Carbon dioxide, Sand
Extinguishing media which must not be used for safety reasons : Strong water jet.

5.2 Special hazards arising from the substance or mixture

Fire hazard : The product is not flammable.
Specific hazards : Evacuate area. When heated to decomposition, emits toxic fumes. Do not allow run-off from fire-fighting to enter drains or water courses. Dispose according to legislation.

5.3 Advice for fire fighters

Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Firefighters should avoid inhaling any combustion products. Do not release chemically contaminated water into drains, soil or surface water.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : None usually necessary. If there are significant quantities of dust/shavings use personal protective equipment as required. Reference to other sections: 8. Evacuate area. Avoid contact with skin and eyes. Avoid breathing dust or vapour. Provide adequate ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Reference to other sections: 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and clearing up

Sweep up or gather material and place in appropriate container for disposal. Dispose according to legislation.

Safety Data Sheet

Bituminous Roofing Membranes

Sheet No: M034FR Issued: 25/08/2017

Revision: 4 1st Issue: 23/06/2016

Pages: 6 of 12

6.4 References to other sections

See sections 8 and 13 for further advice on protective clothing and disposal.

7. Handling and storage

7.1 Precautions for safe handling

Customary personal hygiene measures, such as washing hands after working with these products are recommended. If dusts or fumes of this product are generated, avoid inhalation, skin and eye contact. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Room temperature - normal conditions. Warehouse storage should be in accordance with package directions. Material should be kept dry, and protected from the elements.

7.3 Specific end uses(s)

No special requirements.

8. Exposure controls/personal protection

8.1 Control parameters

If process generated dusts or fumes are likely, follow workplace regulatory exposure limits for relevant hazards

Asphalt (8052-42-4)		
UK (EH40)	8-hour TWA	5 mg/m ³ (petroleum fumes, inhalable fraction)
UK (EH40)	15-minute reference period	10 mg/m ³ (petroleum fumes, inhalable fraction)
UK (EH40)	Biological Monitoring Guidance Value for polycyclic aromatic hydrocarbons (PAHs)	4 µmol 1-hydroxypyrene/mol creatinine in urine

Talc (14807-96-6)		
UK (EH40)	8-hour TWA	1 mg/m ³ (respirable fraction)

Nuisance dust		
UK (EH40)	8-hour TWA	10 mg/m ³ (inhalable fraction)
UK (EH40)	15-minute reference period	4 mg/m ³ (respirable fraction)

Safety Data Sheet

Bituminous Roofing Membranes

Sheet No: M034FR Issued: 25/08/2017

Revision: 4 1st Issue: 23/06/2016

Pages: 7 of 12

Silicon dioxide (7631-86-9)

UK (EH40)	8-hour TWA (amorphous silica)	6 mg/m ³ (inhalable fraction)
UK (EH40)	15-minute reference period	2.4 mg/m ³ (respirable fraction)

- Silica is present as a constituent of the sand and mineral slate surfaced finishes used
- Talc is present as a surface finish
- Glass fibre is present as a reinforcing base encapsulated in bitumen. Exposure levels are likely to be very low in normal use.
- All products listed above contain bitumen

8.2 Exposure controls

Engineering Controls: No special protective measures are necessary for use of this product in that it is an article, and under normal conditions of use is not expected to release, or otherwise result in exposure to a hazardous chemical. If cutting, grinding, drilling, etc. ensure that there is adequate ventilation to keep dust levels within required limits.

Personal Protective Equipment:

Eyes/Face

: Where there is a risk of damage to the eyes/face from splashing of hot product or impact, wear eye/face protection to EN166.

Skin

: The use of heavy duty gloves to protect against skin abrasion and burns through contact with hot bitumen or flame of gas torch during installation is recommended. Protective gloves complying with EN 374. & EN 407.

Respiratory

: Not required under normal conditions of use. If dust or fumes are generated, wear appropriate respiratory protection. Full face mask (EN 136), Half-face mask (DIN EN 140), Filter type: A (EN141).

Environmental Exposure Controls

: Not usually required.

Safety Data Sheet

Bituminous Roofing Membranes

Sheet No: M034FR Issued: 25/08/2017

Revision: 4 1st Issue: 23/06/2016

Pages: 8 of 12

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance / Colour	: Grey - black toned solid material. A variety of coloured finishes are available on top layer felts.
Odour	: None
Odour threshold	: Not Applicable
pH	: Not Applicable
Boiling Point	: Not Applicable
Melting Point	: 150 °C
Flash Point	: 300 °C
Evaporation rate	: Not Applicable
Flammability (gas, solids)	: Standard bitumen based roofing membranes are combustible. Fire performance membranes have a significantly reduced capacity to burn.
Upper/lower flammability limits	: Not Applicable
Vapour Pressure	: Not Applicable
Relative Density	: 1,05
Specific Gravity	: Not applicable
Solubility (H ₂ O)	: Not soluble
Solubility in other solvents	: Not Applicable
Auto Ignition Temp.	: 350 °C
Decomposition temperature	: No data
Viscosity	: Not Applicable
Explosive properties	: Not classified as explosive
Oxidising properties	: Not classified as oxidising

9.2 Other information

None

10. Stability and reactivity

10.1 Reactivity

Not considered a reactive material.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None expected.

10.4 Conditions to avoid

None identified.

10.5 Incompatible materials

None identified.

Safety Data Sheet

Bituminous Roofing Membranes

Sheet No: M034FR Issued: 25/08/2017

Revision: 4 1st Issue: 23/06/2016

Pages: 9 of 12

10.6 Hazardous decomposition products

Bitumen fumes and dense black smoke if heated to excessive temperatures. Burning produces noxious and toxic fumes. Hazardous decomposition products due to incomplete combustion. Carbon monoxide

11. Toxicological information

11.1 Information on toxicological effects

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

(a) **Acute toxicity** not expected to present an acute toxicity hazard. Inhalation of fumes may result in irritation, especially if the product is overheated above recommended temperatures.

2-ethylhexyl-(+)-(R)-2-(4-chloro-2-methylphenoxy)propionate (861229-15-4)	
ATE CLP (oral)	500 mg/kg bodyweight

(b) **Skin corrosion/irritation** Mechanical abrasion may occur in contact with skin. Thermal burns when handled at elevated temperatures.

(c) **Serious eye damage/irritation** not expected to present a hazard to the eyes. Mechanical irritation may occur in contact with particles. Thermal burns when handled at elevated temperatures.

(d) **Respiratory/skin sensitisation** not considered to be a skin or respiratory sensitizer

(e) **Germ cell mutagenicity** contains no components known to be mutagenic.

(f) **Carcinogenicity** Bitumen may contain substances including polyromantic hydrocarbons (PAHs), some types of which have been associated with cancer. However, long-term studies of bitumen and asphalt workers have not demonstrated any increased cancer risk from the use of these products, and bitumen has been classified by IARC as Group 3, not classifiable as to its carcinogenicity to humans.

(g) **Reproductive toxicity** contains no components known to be hazardous to reproduction.

(h) **STOT-single exposure** For Torch-on grades, inhalation of fumes may result in irritation, especially if the product is overheated above recommended temperatures.

(i) **STOT-repeated exposure** No chronic health effects are expected from the normal use of this product.

(j) **Aspiration hazard** not relevant.

Safety Data Sheet

Bituminous Roofing Membranes

Sheet No: M034FR Issued: 25/08/2017

Revision: 4 1st Issue: 23/06/2016

Pages: 10 of 12

12. Ecological information

These products have not been tested. Judgements on the expected toxicity of these products have been made based upon consideration of their major components.

12.1 Toxicity

Not expected to be toxic to the environment.

12.2 Persistence and degradability

Not expected to be biodegradable.

12.3 Bio accumulative potential

Not expected to bio accumulate.

12.4 Mobility in soil

Not expected to be mobile in the environment.

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Other adverse effects

None known.

13. Disposal considerations

13.1 Waste treatment methods

Dispose of in accordance with local regulations.

Product waste : Do not allow to enter into surface water or drains.
Dispose according to legislation.
Refer to manufacturer/supplier for information on recovery/recycling.
Collect and dispose of waste product at an authorised disposal facility.

Contaminated packaging : In accordance with local and national regulations.

Further ecological information : Avoid release to the environment.

List of proposed waste codes/waste designations in accordance with EWC : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Safety Data Sheet

Bituminous Roofing Membranes

Sheet No: M034FR Issued: 25/08/2017

Revision: 4 1st Issue: 23/06/2016

Pages: 11 of 12

14. Transport information

Not considered to be dangerous goods for transport.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

All components are listed as existing substances in Europe

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

16. Other information

Other information:

This safety data sheet is prepared in accordance with the formatting described in Commission Regulation (EU) No 453/2010.

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)	:	Acute toxicity Category 4
Aquatic Acute 1	:	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 1	:	Hazardous to the aquatic environment - chronic hazard category 1
Skin Sens. 1	:	Skin sensitisation, hazard category 1
H302	:	Harmful if swallowed.
H317	:	May cause an allergic skin reaction.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
R22	:	Harmful if swallowed.
R43	:	May cause sensitisation by skin contact.
R50/53	:	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
N	:	Dangerous for the environment
Xn	:	Harmful

List of Abbreviations used in this SDS:

CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging Regulation (EC) no 1272/2008
DSD	Dangerous Substances Directive 67/548/EEC
DPD	Dangerous Preparations Directive 1999/45/EC
EC	European Community/Commission
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006
vPvB	very Persistent, very Bioaccumulative

Safety Data Sheet

Bituminous Roofing Membranes

Sheet No: M034FR Issued: 25/08/2017

Revision: 4 1st Issue: 23/06/2016

Pages: 12 of 12

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