SAFETY DATA SHEET

PermaTEC

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, and described in CLP Regulation (EC) No 1272/2008.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

PermaTEC Ecowrap *(24110080)*
PermaTEC Anti-root *(24116080)*

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

Hot applied waterproof coating

1.3 Details of the supplier of the safety data sheet

IKO PLC – Head Office
Apply Lane North
Appley Bridge, Wigan
Lancashire WN6 9AB
Tel: 01257 256771
Email:uktechnical@iko.com

1.4 Emergency telephone number

Tel: +44 (0)1257 256864 Opening Times: 0900 - 1700 Monday to Friday

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification in accordance with the Classification Labelling and Packaging Regulation EC (no) 1272/2008
Not classified as hazardous

2.2 Label elements

Labelling in accordance with the Classification Labelling and Packaging Regulation EC (no) 1272/2008
No label required

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.

SECTION 3: Composition

3.1 Substances
Not applicable.

3.2 Mixtures
A mixture of fine aggregate, polymer modified bitumen and rubber

SECTION 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 seek medical assistance.

INGESTION: If swallowed, rinse mouth with water.

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.

4.3 Indication of any immediate medical attention and special treatments needed

Symptomatic treatment as required.

SECTION 5: Firefighting Measures

55.1 Extinguishing media

Use any media suitable for the surrounding fires. Water, spray, fog, carbon dioxide (CO2), dry chemical, foam.

5.2 Special hazards arising from the substance or mixture

Standard bitumen based roofing membranes are combustible and release dense black smoke when they burn.

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.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

None usually necessary. If there are significant quantities of dust/shavings wear safety glasses with side-shields or safety goggles and gloves.

6.2 Environmental precautions

None usually necessary

6.3 Methods and materials for containment and clearing up

Sweep up or gather material and place in appropriate container for disposal.

6.4 References to other sections

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

SECTION 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.

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)
Heating and melting asphalt should be carried out to the agreed procedures under the Working Rule Agreement. The "hot charge" product is delivered at a maximum temperature of 230°C. When handling hot asphalt use personal protective equipment (see Section 8) to avoid contact with skin and eyes

SECTION 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

Substance	8 hour exposure limit	15 minute exposure limit	Source, Type
Asphalt, petroleum fumes	5 mg/m^3	10 mg/m^3	EH40, 2011
Amorphous silica	6 mg/m^3 (inhalable dust) 2.4 mg/m^3 (respirable dust).		EH40, 2011

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.
Respiratory: Not required under normal conditions of use. If dust or fumes are generated, wear appropriate respiratory protection.

Environmental Exposure Controls: Not usually required.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Grey – black toned solid material (Changes in colour may occur due to masterbatch pigments being added
Odour: None
Odour threshold: Not Applicable
pH: Not Applicable
Boiling Point: Not Applicable
Melting Point: Not applicable
Flash Point: Not Applicable
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
Vapour Density:	Not Applicable
Specific Gravity:	Not applicable
Solubility (H2O):	Not soluble
Solubility in other solvents:	Not Applicable
Auto Ignition Temp.:	No data
Decomposition temperature:	No data
Viscosity:	Not Applicable
Explosive properties:	Not classified as explosive
Oxidising properties:	Not classified as oxidising

9.2 Other information

Additional product information including details of physical characteristics and application is available in the product technical literature.

SECTION 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.

10.6 Hazardous decomposition products

Bitumen fumes and dense black smoke if heated to excessive temperatures.

SECTION 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	Oral and dermal toxicity are expected to be of a very low order, based on consideration of components. Inhalation of fumes may result in irritation, especially if the product is overheated above recommended temperatures.
(b) skin corrosion/irritation	The products present no acute health hazard to skin or eyes other than burning when handled at elevated temperatures.
(c) serious eye damage/irritation	The products present no acute health hazard to skin or eyes other than burning when handled at elevated temperatures. Dust from cold product may cause mechanical irritation of the eye.
(d) respiratory/skin sensitisation	Not considered to be a skin or respiratory sensitiser.
(e) germ cell mutagenicity	Not considered to be a germ cell mutagen.
(f) carcinogenicity	Bitumen may contain substances including polyaromatic 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	Not considered to be a reproductive toxin.

(h) STOT-single exposure	Inhalation of fumes may result in irritation, especially if the product is overheated above recommended temperatures.
(i) STOT-repeated exposure	No evidence of toxicity from repeated exposure.
(j) aspiration hazard	Not applicable.

SECTION 12: Ecological Information

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

12.1 Toxicity
Not expected to have any toxic effects in the environment.

12.2 Persistence and degradability
The products are not biodegradable. They are unlikely to cause long term effects in the aquatic environment

12.3 Bioaccumulative potential
These products are considered to be of low risk for bioaccumulation.

12.4 Mobility in soil
Not expected to be mobile. Low solubility in water. Product will harden once cooled, and will sink if it enters watercourses.

12.5 Results of PBT and vPvB assessment
A PBT and vPvB assessment has not been carried out, but there is no indication that any of the components may be of concern.

12.6 Other adverse effects
None known.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods
Dispose of in accordance with local regulations.

SECTION 14: Transport Information

Not considered to be dangerous goods for transport.

SECTION 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.

SECTION 16: Other Information

Revision information:
Updated in accordance with Regulation (EC) No 2015/830.

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

References:
Component suppliers SDS
EH40, 2007

Method used for classification of mixtures:
Ingredient based approaches

H Statements used in Section 3
None

Training requirements for workers
Workers using elevated temperature products should receive appropriate training.

Version History
Version 4 – July 2016 – New Version for specific Products under CLP Regulations