

INFORMATION SHEET
Polymer - distilled bitumen waterproofing membranes

FOREWORD

Waterproofing membranes are identified as articles according to the REACH Regulation (EC) 2006/1907, based on the definition under art. 3 (3) thereof. Because the products are not classified as hazardous substances and/or mixtures according to Regulation (EC) 2008/1272, there is no requirement under Articles 31 and 32 of the REACH Regulation to compile a safety data sheet.

The following information sheet has been prepared to provide additional information regarding their safe use.

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/BUSINESS

Product name: Polymer - distilled bitumen waterproofing membrane

Manufacturer: Matco Srl - Via Quadrelli 69 - 37055 Ronco all'Adige VR Italy

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2. HAZARDS IDENTIFICATION

None identified under normal conditions of use and application. Hazardous products (CO, CO₂) may be released in the event of fire/thermal decomposition.

Based on information received from its suppliers, Matco srl hereby declares that there are no substances included on the SVHC – CL Substances of Very High Concern Candidate List in concentrations exceeding 0.1% weight by weight.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The bitumen, polymers and substances used are not classified as hazardous according to the CLP Regulation 2008/1272.

4. FIRST AID MEASURES

Inhalation of fumes given off due to product combustion: move affected person to fresh air and seek medical advice.

If skin comes into contact with molten material: rinse for several minutes with plenty of fresh water; do not attempt to remove the material from skin using solvents or other such products; remove clothing in contact with the molten material if it is not attached to the skin; lastly, seek medical advice.

5. FIREFIGHTING MEASURES

In case of fire, extinguish with water fog, carbon dioxide, dry chemical, or extinguishing foam. Thermal decomposition releases hazardous products: carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

Not applicable

7. STORAGE AND INSTALLATION

Storage.

Store rolls vertically without placing anything on top, out of direct sunlight and protected from the elements, away from sources of heat and naked flames. Keep suitable extinguishing media to hand.

Installation.

Use suitable protective clothing (see sect. 8).

If the product is to be installed indoors, make sure there is suitable ventilation and a sufficient supply of fresh air. Implement the usual occupational hygiene and safety practices as provided for under current legislation. Keep appropriate extinguishing media to hand. Apply the waterproofing membranes in compliance with applicable technical standards and the manufacturer's instructions. The product is applied by welding the bitumen mixture, usually using a propane torch, and requires specialist applicators. Additional information can be found in Appendix 1.

8. PERSONAL PROTECTION/EXPOSURE CONTROL

Recommended personal protective equipment:

- hand protection: use special safety gloves providing mechanical protection
- skin protection: use suitable protective clothing

Exposure to fumes during installation:

- under normal conditions of application outdoors, no special precautions are required.
- when the product is applied indoors, make sure there is suitable ventilation and a sufficient supply of fresh air.

Wash your hands before taking a break and once you have finished working.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: membrane in rolls
- Odour: slight, bitumen
- pH: not applicable
- Boiling point/range: > approx. +470 °C (bitumen)
- Melting point/range: > +100 °C
- Flash point: > approx. +230 °C (bitumen)
- Flammability: (solid, gas) calorific value approx. 9,000 kcal/kg
- Auto-flammability: > approx. +485 °C (bitumen)
- Explosive properties: NO
- Oxidizing properties: NO
- Vapour pressure: not applicable
- Density: 1 to 1.5 kg/dm³
- Solubility: insoluble in water, soluble in organic solvents and in oils.

10. STABILITY AND REACTIVITY

Stable under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

The product is made from a blend of distilled bitumen, polyolefin and/or elastomeric polymers, and a reinforcing carrier. The product does not contain coal tar or asbestos. The product does not pose a hazard of any kind as is.

The waterproofing membrane is installed by laying and applying the individual membranes using the torch-on and/or cold application method. During the heating process — which must be carried out following specific "technical procedures" set out by the manufacturer designed to ensure the operation

is performed safely and in accordance with good practice criteria — the increase in the mixture's temperature may result in the mixture breaking down with heat and the distilled bitumen thus releasing thermal decomposition products in the form of gases, fumes and particulates, exposure to which can cause the following complaints in exposed personnel:

- eye irritation possibly accompanied by sensitization (conjunctivitis);
- skin irritation possibly accompanied by sensitization (dermatitis);
- irritation of the upper respiratory tract.

Italian legislation (D.L. 25/2002 and DLgs 81/2008 as subsequently amended) requires workers tasked with using the waterproofing product for extended periods of time to see a doctor for regular health checks.

12. ECOLOGICAL INFORMATION

Use according to good working practices and do not release the product to the environment.

13. DISPOSAL CONSIDERATIONS

The product is classed as non-hazardous waste according to Italian law (D.Lgs. 3 April 2006 n°152 as subsequently amended).

In compliance with current relevant regulations, the product may be disposed of through an authorized landfill.

Dispose of packaging as directed on the packaging itself and in compliance with local council regulations.

14. TRANSPORT INFORMATION

Not hazardous for transport purposes.

15. REGULATORY INFORMATION

The CLP Regulation (EC) 2008/1272 does not apply.

16. OTHER INFORMATION

Key sources of data used to compile this information sheet:

- Istituto Superiore di Sanità – Prot. 30189/TOA6 del 10 ottobre 1997 "Classificazione di pericolosità del bitume e del catrame"
- NIOSH Registry of toxic effects of chemical substances SAX's Dangerous Properties of Industrial Materials.
- Bertazzi P.A., Foà V., Fustinoni S., "Esposizione professionale a idrocarburi policiclici aromatici durante la stesura bituminosa", Università degli Studi di Milano, Dipartimento di Medicina del Lavoro, Milano, 2005.
- ACGIH: Threshold Limit Values (TLVs) for chemical substances (2008).
- Atti del Convegno su Salute e sicurezza nelle opere di impermeabilizzazione con membrane bituminose, (Albino 18 dicembre 2009)

The information contained herein is supplied to the best of our current knowledge and may be subject to changes and/or updates. The product must be stored and used in compliance with hygiene and safety standards and good industry practice, in accordance with the technical instructions provided by Matco srl and as required by law.

This information sheet cancels and supersedes all previous editions.

APPENDIX 1

TECHNICAL SPECIFICATIONS FOR THE APPLICATION OF THE POLYMER - DISTILLED BITUMEN MEMBRANE

The job of installing the membrane must be carried out following the technical instructions given herein, which are designed to ensure the operation is performed in accordance with good practice principles and safety criteria.

The membrane must be applied taking into account the specific principles relating to the following areas:

EXPOSURE CONTROL

- **RESPIRATORY PROTECTION:** avoid installation indoors and/or in poorly ventilated spaces; when applying this product inside, the interior must have suitable systems in place to extract the fumes generated during the torch-on process.

When working in poorly ventilated confined spaces, use personal respiratory protection consisting of a face mask with a type AP filter (for protection from organic vapours, dust and fumes, spray coating, protection rating P3).

- **HAND PROTECTION:** use special safety gloves.
- **EYE PROTECTION:** eyewear and safety face masks.
- **SKIN PROTECTION:** use suitable protective clothing.

Implement occupational hygiene and safety practices as provided for under current legislation.

INSTALLATION TEMPERATURE CONTROL

- **TEMPERATURE CHECK:** when using the torch-on or hot-air method to install membranes faced with a heat-fusible film on one or both sides, you know you have reached the right temperature when the film has retracted fully; while with talc- or sand-surfaced membranes, you can tell that the surfaces are hot enough to stick when they go black and glossy on the surface.

A trickle of the molten mixture leaking out along the line of the overlap tells you that you have got the installation procedure correct. The trickle of molten mixture should not exceed 1 cm.

- **FLAME COLOUR:** During application, the flame colour should be a steady blue; should it start to turn reddish, it means that the temperature is too high, which is to be avoided. Additional repairs are to be avoided as they can damage the mixture and the carrier, and result in unnecessary emission of fumes.
- **USING A THERMOMETER:** When laying molten bitumen, using a thermometer allows you to check the temperature of the vessel the bitumen is being melted in.
- **CONTROL OF NAKED FLAMES:** The use of naked flames, where left unattended, can be a fire hazard. Keep appropriate extinguishing media to hand.