

## MATERIAL SAFETY DATA SHEET

### PRODUCT AND SUPPLIER IDENTIFICATION

#### EURO PLAST PV – waterproofing membrane

##### 1 – HAZARD IDENTIFICATION

**Classification:** the product is not classified as hazardous in accordance with the national regulation (D.Lgs. n°65/03).

**Health Risk:** acute and throat irritation are possible during the heat treatment and application of the product, especially in indoor areas, due to the inhalation of potentially hazardous substances such as gas and condensed fumes.

**Safety risk:** the molten product may adhere to the skin and may cause burns. The presence of inflammable materials (HC vapours, etc) may cause fire events. **Environmental risks:** membrane may cause long-term adverse effects because their components are not biodegradable.

##### 2 – COMPOSITION-INFO RMATION ON INGREDIENTS

**Composition:** the product consists in a mixture of penetration grade bitumen and polyolefin and/or elastomer polymers and reinforcement, manufactured in membrane rolls.

**Information on ingredients:** the product does not contain any hazardous components in accordance with the national regulation (D.Lgs. n° 65/03).

##### 3 – FIRST AID MEASURES

**Inhalation:** in case of long-term inhalation of fumes, particularly in indoor areas, move person to fresh air and call for medical assistance.

**Skin contact:** in case of skin contact with molten product, immediately flush skin with plenty of fresh water. Do not pull solidified product away from the skin by using solvents. Remove contaminated clothing immediately and seek immediate medical services.

**Eye contact:** if substances has got into eyes, wash out with water for at least 15 minutes and seek immediate medical attention. Do not pull product away from the eye. In case of irritation by fumes wash out with cold water. **Ingestion:** seek immediate medical attention.

##### 4 – FIREFIGHTING MEASURES

**Extinguishing media:** CO<sub>2</sub>, nebulized water, foam, dry chemical. Do not use direct stem of water to extinguish.

**Personal protection:** In the event of fire, use supplied air respirators with universal filters U.P.

#### **4 – ACCIDENTAL RELEASE MEASURES**

not applicable

#### **5 – HANDLING AND STORAGE**

**Condition for safe storage:** protect material from heat and direct sunlight (temperature 0° - 40°C) and keep away from electrical equipment. Keep rolls in a vertical position and do not stack them. For safe storage follow the specific storage recommendation for this product. It is not necessary to take precautionary measures to prevent the formation of static electricity. Open flames are prohibited. Keep extinguish media available (Point3).

**Precautions for safe handling:** provide appropriate ventilation when the product is applying in indoor areas.

**Precautions for use:** membrane applications should follow the “Technical instructions provided by the supplier. In case of indoor applications, use the Personal Protective Equipment (Point 6). Avoid extinguishing means available. During application the material in the molten state can cause scalding. Use of a freely burning flame, if unguarded, may constitute a fire risk. When flame or hot air are used for application purposes, the right heating temperature for sheathing with therm0-melt film covering on their face(s) is indicated by the full retraction of the film. For sand-covered or talccovered surfaces, the right temperature for surface adhesion is indicated by blackening and by the appearance of a shiny surface. The right application procedure is reported by a molten mix along the line where the sheet overlap. The molten mix should not be above 1-2cm. Further removal of make-up has to be avoided because of possible damages to the mix and because the can produce useless emission of vapours. During the application the flames colour must be blue – a red flame indicates an excessive heating that must be avoided. Where application involves use of molten bitumen, a thermometer will enable a check to be kept on the temperature of the pot in which the bitumen is melted.

#### **6 – EXPOSURE CONTROL AND PERSONAL PROTECTION**

**Exposure controls:** normally the product doesn't generate hazardous substances. Open flame operation involved in installing bitumen-polymer waterproofing membranes may generate the dispersion of potentially hazardous substances, among which polycyclic aromatic compounds. Provide appropriate ventilation when the product is applied in indoor areas. (Point 1) in order to keep the exposure levels below the required limits (T.L. V-ACGIH)

**Personal protective equipment:** during product applications, the following personal protective equipment is recommended:

**Skin protection:** protective gloves; long sleeve shirt, safety shoes.

**Eye protection:** safety glasses.

In case of indoor applications provide appropriate ventilation. In case of inadequate ventilation system, use a respiratory protection equipment. The use of particulate filter respirators against solid & liquid particles is recommended (P3 protection).

**Hygienist measures:**

-**Wash hands** before every break and after the work shift.

-**Keep work clothes** separate from the other clothing.

## 7 – PHYSICAL AND CHEMICAL PROPERTIES

|                                     |   |
|-------------------------------------|---|
| Physical form / Odour:              | membrane roll / slight bitumen odour      |
| pH:                                 | not applicable                            |
| Boiling Point / Range:              | +470 °C ca(bitumen)                       |
| Melting Point / Range:              | >100 °C                                   |
| Flash Point / Range:                | +230 °C approx. (bitumen)                 |
| Flash Point (solid, Gas):           | calorific value = 9.000kcal/kg approx.    |
| Auto ignition:                      | +485 °C approx. (bitumen)                 |
| Explosive and Oxidizing Properties: | No / No                                   |
| Vapour Pressure / Density:          | not applicable / 1÷1,5 kg/dm <sup>3</sup> |
| Solubility in Water:                | No  |
| Lipid Solubility:                   | Yes (organicsolvents –oils)               |

## 8 – STABILITY AND REACTIVITY

**Stability:** the product is stable and is not considered to be reactive under normal temperature and pressure.

**Reactivity:** the product is chemically inert.

**Incompatible materials:** avoid contacts with oxidizing agents, especially under high temperatures, because the product may have isothermal reactions.

## 9 – TOXICOLOGICAL INFORMATION

**The product:** the product consists in a mixture of distilled bitumen and polyolefin and/or elastomer polymers and reinforcement. The product does not contain coal tar and asbestos. The product is not classified as hazardous.

Information on toxicological effects: the product may be applied in adhesive cold or heat welded. Open flame operations involved in installing bitumen-polymer waterproofing membranes may generate the dispersion of potentially hazardous substances, among which polycyclic aromatic compounds. The exposure levels to these substances are widely below the normative limits for IPA fumes in metropolitan areas. Acute health hazards: eye irritation – skin irritation – nose and throat irritation: repeated long-term exposure needs regular medical examination, in accordance with the national regulation (D.L. 25/2002 and DLgs 81/2008 and subsequent modifications). The product should be applied in accordance with the rules of hygiene, safety and good industrial practice, according to the technical instructions provided by the manufacturer.

## 10 – ECOLOGICAL INFORMATION

The product must be stored and used in accordance with the rules of hygiene, safety and good industrial practice, according to the technical guidance provided by the manufacturer (Point 5). Dispose of this product according to national regulations, in order to avoid environmental pollution (Point 11).

## 11 – DISPOSAL CONDITIONS

Dispose of the product in landfill. The product is classified as non-hazardous special waste in accordance with national regulations (D.Lgs 152/2006 and subsequent modifications).

## 12 – TRANSPORT INFORMATION

No special transportation or shipping requirements.

## 13 – REGULATORY INFORMATION LABEL

**Label:** no labelling required – R-Phrases: not applicable – S-Phrases: not applicable

European regulation: Directive 67/548/CEE, Directive 1994/45/CE, Directive 91/155/CEE and subsequent modifications and integrations, Directive 92/32/CEE, Directive 93/67/CEE, Regulation 793/93, Regulations 1488/94, Directive 98/24/CE, Directive 2001/60/CE, Directive 2004/73/CEE, Regulation (CE) n,1907/2006 (REACH), Directive 2008/98/CE.

**n.b.** This INFO SAFETY DATA SHEET includes the following 14 headings in accordance with Annex 11 of COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending regulation (EC) No 1907/2006 of the European Parliament and the Council on the Registration, Evaluation, Authorization and restriction of Chemicals (REACH).

## 14 – OTHER INFORMATION

Check of application temperature

**Correct temperature:** using hot air or flame, the correct application temperature is showed by:

01 – a complete retraction of fusible surfacing film.

02 – blackening talc/mineral finishing and polished surface.

In any case, the maximum size of this part of stream has to be 1÷2cm.

**Flame colour;** during the application of the product, the colour of the flame has to be blue. If the colour of the flame is reddish it means that too much heat has been reached: this is not a correct and good practice.

**Thermometer use:** in case of application with molten bitumen, the temperature of the tank can be checked by thermometer.

**Open flames:** avoid open flames in order to avoid risks of fire; keep fire extinguish media available.

## TECHNICAL INSTRUCTIONS FOR THE APPLICATION OF FLEXIBLE BITUMEN SHEETS FOR WATERPROOFING



HOYLAKE

member of eurotec group

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## THE NECESSARY EQUIPMENT

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The information contained in this data sheet is provided subject to our current state of knowledge, carries no warranty status, and may undergo revision. The product must be stored and used in accordance with health and safety regulations and good industrial practice, and in compliance with the supplier's technical instructions and statutory provisions.