



## SAFETY DATA SHEET

### Reinforced bitumen sheets for roof waterproofing

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#### Foreword

Subject to Italian Legislative Decree no. 65 dated 14th March 2003 bearing "Classification and regulation of the packaging and labelling of hazardous preparations/mixtures in implementation of the directives issued by the Council and Commission of the European communities" the product considered is not subject to the obligation of issuing the safety data sheet, since it is a manufactured article and as such is not within the field of application of the standard that, on this subject, regulates just hazardous mixtures.

It is however considered appropriate to provide the information that follows in order to use it correctly, consequently utilising the 16-point scheme - subject to M.D. 7th September 2002 – and subsequent additions and amendments.

### 1. PRODUCT AND PRODUCER IDENTIFICATION

- 1.1. PRODUCT IDENTIFIER: Waterproofing membrane
- 1.2. RELEVANT USE: Waterproofing applications
- 1.3. PRODUCER IDENTIFICATION  
Name: Saint Gobain PPC Italia S.p.A.  
Address: Via Ettore Romagnoli, 6 - 20146 Milano, Italy  
E-mail: infoweb.bituver@saint-gobain.com
- 1.4. EMERGENCY TELEPHONE NUMBER: 00390871588021

### 2. HAZARD IDENTIFICATION

- 2.1. CLASSIFICATION. The product is not classified as hazardous in accordance with the national regulation (D.Lgs. n. 65/03).
- 2.2. HEALTH RISK Acute nose 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.
- 2.3. 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.
- 2.4. ENVIRONMENTAL RISKS Membranes may cause long-term adverse effects because their components are not biodegradable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1. COMPOSITION. The product consists in a mixture of penetration grade bitumen and polyolefin and/or elastomer polymers and reinforcement, manufactured in membrane rolls.
- 3.2. INFORMATION ON INGREDIENTS: The product does not contain any hazardous components in accordance with the national regulation (D.Lgs. n. 65/03).



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#### 4. FIRST AID MEASURES

- 4.1. **INHALATION** In case of long-term inhalation of fumes, particularly in indoor areas, move person to fresh air and call for medical assistance.
- 4.2. **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 advice.
- 4.3. **EYE CONTACT** If substance 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.
- 4.4. **INGESTION:** Seek immediate medical attention.

#### 5. FIREFIGHTING MEASURES

- 5.1. **EXTINGUISHING MEDIA :** CO<sub>2</sub>, nebulized water, foam, dry chemical. Do not use direct stream of water to extinguish.
- 5.2. **PERSONAL PROTECTION:** In the event of fire, use supplied air respirators with universal filter U.P.

#### 6. ACCIDENTAL RELEASE MEASURES

Not applicable.

#### 7. HANDLING AND STORAGE

- 7.1. **CONDITIONS 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 recommendations 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 (Point 5).
- 7.2. **PRECAUTIONS FOR SAFE HANDLING**  
Provide appropriate ventilation when the product is applied in indoor areas.
- 7.3. **PRECAUTIONS FOR USE**  
Membrane applications should follow the "Technical instructions" provided by the manufacturer.  
In case of indoor applications, use the Personal Protective Equipment (Point 8). Avoid open flames.



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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### 8.1. EXPOSURE CONTROLS

Normally the product doesn't generate hazardous substances. Open flame operations 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 2) in order to keep the exposure levels below the required limits (T.L.V.- ACGIH).

##### 8.2 PERSONAL PROTECTIVE EQUIPMENT

During product applications, the following personal protective equipment is recommended:

- Skin protection: protective gloves; long sleeve shirt, trousers, safety shoes.
- Eye protection: safety glasses

In case of indoor applications provide appropriate ventilation (Point 8.1). 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).

##### 8.3 HYGIENIST MEASURES

- Wash hands before every break and after the work shift.
- Keep work clothes separate from the other clothing



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

- PHYSICAL FORM	Membrane rolls
- ODOUR	slight bitumen odour
- pH	not applicable
- BOILING POINT/RANGE	> +470°C ca. (bitumen)
- MELTING POINT/RANGE	> +100°C
- FLASH POINT	> +230°C ca. (bitumen)
- INFIAMMABILITY(solid, gas)	Calorific value 9.000 kcal/kg ca.
- AUTOIGNITION TEMPERATURE	> +485°C ca. (bitumen)
- EXPLOSIVE PROPERTIES	NO
- OXIDIZING PROPERTIES	NO
- VAPOUR PRESSURE	not applicable
- DENSITY	1÷1,5 kg/dm <sup>3</sup>
- SOLUBILITY IN WATER	NO
- LIPID SOLUBILITY	YES (organic solvents; oils)

### 10. STABILITY AND REACTIVITY

- 10.1 STABILITY The product is stable and is not considered to be reactive under normal temperature and pressure.
- 10.2 REACTIVITY The product is chemically inert.
- 10.3 INCOMPATIBLE MATERIALS Avoid contacts with oxidizing agents, especially under high temperatures, because the product may have esothermal reactions.



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#### 11. TOXICOLOGICAL INFORMATION

11.1 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.

#### 11.2 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 (Source: Bertazzi PA, FOA' V., Fustinoni S., see section 16)

Acute health hazards:

- eye irritation
- skin irritation
- nose and throat irritation

Repeated long-term exposure needs regular medical examination, in accordance with 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.

#### 12. 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 7)  
Dispose of this product according to national regulations, in order to avoid environmental pollution (Point 13).

#### 13. DISPOSAL CONSIDERATIONS

The product is to be considered as non-hazardous waste in accordance with the provisions of Italian Legislative Decree no. 152 dated 3rd April 2006. It is mandatory to send the product to an authorized waste tip for disposal.

#### 14. TRANSPORT INFORMATION

No special transportation or shipping requirements.

#### 15. REGULATORY INFORMATION

15.1. LABELLING: Symbols: Not necessary  
Risk phrases (R): Not necessary  
Safety phrases (S): Not necessary



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15.2. EU LEGISLATION: Directives 67/548/EEC dated 27<sup>th</sup> June 1967, 1999/45/EC dated 31<sup>st</sup> May 1999, 91/155/EEC dated 5<sup>th</sup> March 1991 and their subsequent amendments and additions. Directive 92/32/EEC, Directive 93/67/EEC Regulation 793/93, Regulation 1488/94, Directive 98/24/EC, Directive 2001/60/EC, Directive 2004/73/EEC, Regulation (EC) no. 1907/2006 (REACH), Directive 2008/98/EC.

15.3. ITALIAN LEGISLATION: Legislative Decree no. 65 dated 14<sup>th</sup> March 2003; DPR (Presidential Decree) no. 482 dated 9<sup>th</sup> June 1975, Legislative Decree no. 22 dated 5<sup>th</sup> February 1997, DPR no. 336 dated 13<sup>th</sup> April 1994, Legislative Decree no. 25 dated 2<sup>nd</sup> February 2002, Legislative Decree no. 52 dated 3<sup>rd</sup> February 1997; Legislative Decree no. 285/98; Legislative Decree 152/2006, Legislative Decree no. 81/2008; Legislative Decree no. 106/2009 and their subsequent amendments and additions.

### 16. OTHER INFORMATION

The data sheet herein has been written according to the provisions of Appendix II of Regulation 1907/2006/EC.

The information given in the data sheet illustrated above is supplied at the current state of our knowledge and may also be subject to variations.

The product must be stored and used according to health & safety standards and efficient industrial practice subject to the technical indications and in compliance with legal provisions.