

# APPLICATION DATA SHEET



**ENVIROGRAF®**

AP083-EP/FS/IN/WB-11-2018

Product Number: 83

EP/FS/IN/WB Water Based

Intumescent Coating for Steel Protection

## **Description:**

Smooth-finish intumescent paint system for the protection of Steel and Aluminium. Can be applied over existing paint after removal of any loose particles and washing down.

## **Application:**

1. Ensure that steel is cleaned and free from loose rust. Over existing paints, ensure that the surface is clean, dry, and free from grease or loose material before applying the primer. Slightly abrade any top coat to provide a key for the primer.
2. Apply Envirograf® EP/FS/P primer at a rate of 8 - 10m<sup>2</sup> per litre, suitable for internal and external application. If a primer has already been applied and is sound, then there is no need to apply Envirograf® primer.
3. Apply Envirograf® intumescent coat EP/FS/IN over the primed surface by brush, roller, or spray to give the correct loading as specified. Up to 5% water can be added for spraying if necessary. Depending on the thickness of the coats applied and the air temperature and humidity, each coat will take approximately one to two hours to dry.
4. Do not apply the Envirograf® intumescent coat EP/FS/IN externally if rain is imminent. The top coat must be applied for weather protection or the area should be temporarily covered over to prevent damage to coated areas by rain, snow, or water leakage. If a paint contract is not going to be completed in a day, it is advisable to concentrate on one area at a time, thus ensuring all the coats including a top coat can be applied in the same day. This does not apply to internal applications where rain, water, or moisture are not a problem.
5. Where the steel is external, application of an undercoat is advisable. Any groove or joints between brick, block and steel must be sealed with silicone after coating is applied to stop ingress of water.
6. For internal use apply the EP/FS/TCW top coat at a rate of 10 -12m<sup>2</sup> per litre. For external use apply the EP/FS/TCE top coat at a rate of 2 coats at 10 -12m<sup>2</sup> per litre. The top coats can be supplied in any RAL or BS colour.



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Intumescent Coating for Steel Protection

**Description:**

Water based paint for the protection of steel and aluminium.

The Intumescent coating is suitable for periods up to 90 minutes fire protection dependant on the thickness of steel.

The system uniquely offers an attractive smooth finish which can be over painted with any good quality paint.

The system can also be applied to previously coated surfaces with the use of one coat EP/FS/P Primer.

The EP/FS/IN/WB coating has a consistency similar to normal emulsion and dries in approximately 1 hour under normal conditions.

**Material Specification:**

Composition:	Aqueous (emulsion) polymer system.
Colour:	White
Vapour Pressure:	Not applicable
Density:	At 20°c 1.28 to 1.31 g/cm <sup>3</sup>
Viscosity:	At 20°c 1200 Cp

**Test Details:**

	<u>Integrity</u>	<u>Insulation</u>
Warrington – WFRC C80371	30, 60, 90 Minutes	N/A
Fulmer Yarsley – J84201/4	97 Minutes	N/A



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Intumescent Coating for Steel Protection

**Description:**

Smooth-finish intumescent paint system for the protection of Steel and Aluminium. Can be applied over existing paint after removal of any loose particles and washing down.

This product comprises of the following materials and therefore is supported by Health & Safety Data Sheets:

- (Appendix 17) EP/FS/IN/WB Steel Paint

\*The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.

**HEALTH & SAFETY INFORMATION SHEET**  
**APPENDIX 17**  
**STEEL PAINT**

20<sup>th</sup> March 2018

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**1. IDENTIFICATION OF THE PREPARATION AND COMPANY**

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PRODUCT NAME:	Steel Paint
MANUFACTURER/SUPPLIER:	Envirograf
ADDRESS:	Envirograf House, Barfrestone, Dover, Kent, CT15 7JG
TELEPHONE/FAX/EMAIL:	01304 842555    01304 842666    sales@envirograf.com
EMERGENCY PHONE NUMBER:	01304 842555 (Monday to Friday 8.30 – 5.30)
PRODUCT USE:	Coatings: Waterborne paint

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**2. HAZARDS IDENTIFICATION**

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**Hazard pictogram:**

Warning

**Hazard statement:**

1.3.5-Triazine-2.4.6-Triamine. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

**Health effects:**



**Hazard Symbol**

May product an allergic reaction

**Skin**

May cause slight irritation on prolonged / repeated contact.

**Eyes**

May cause some irritation.

**Inhalation**

No hazard under normal conditions of use.

**Ingestion**

Low toxicity.

**Physical/chemical effects**

Not applicable.

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**3. COMPOSITION / INFORMATION ON INGREDIENTS**

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**Chemical characterization**

Aqueous (emulsion) polymer system.

**Hazardous components:-**

Reaction mass of diisobutyl adipate and diisobutyl glutarate and diisobutyl succinate  
EINECS NUMBER 907-870-9, REACH 01-2119486562-31

Biocidal ingredients-contains:

- 2-methyl isothiazol-3(2H)-one. < 0.0006%. CAS No. 2682-20-4 H301 / H330 / H314 / H318 / H317 / H400
- Pyrrithione Zinc < 0.0006% Cas No. 13463-41-7 H301 / H330 / H318 / H400 / H 410
- 1,2-benzisothiazol-3(2H)-one <0.0006% Cas No. 2634-33-5 H330 / H318 / H315 / H317
- 5-chloro-2-methy-3(2H)-lisothiazolone / 2 – methyl3(2H)-isothiazolone (3:1) < 0.0000026% H311 / H330 / H314 / H317 / H400 / H410 / H318

**Labeling with: EUH208** Contains - 5-chloro-2-methy-3(2H)-lisothiazolone / 2 – methyl3(2H)-isothiazolone (3:1) - May cause allergic reaction.

1,3,5-Triazine-2,4,6-Triamine. <9.7% Cas No. 290-87-9 H351/H373 – Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

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#### 4. FIRST AID MEASURES

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**Skin contact:** Remove contaminated clothing and wash contaminated skin with soap and water.

**Eye contact:** Wash with water for several minutes. If irritation persists seek medical advice.

**Inhalation:** Remove the casualty to fresh air.

**Ingestion:** Rinse out mouth with water and if conscious drink plenty of water. Seek medical attention.

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#### 5. FIRE-FIGHTING MEASURES

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**Extinguishing media:** Foam, carbon dioxide, powder, and water spray.

**Extinguishing media which must not be used for safety reasons:** None known.

**Special exposure hazards:** None known.

**Special protective equipment for fire-fighters:** Chemical protection suit / gloves / boots and self-contained breathing apparatus.

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#### 6. ACCIDENTAL RELEASE MEASURES

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**Personal precautions:** Use personal protection equipment.

**Environmental precautions:** Do not dispose of into surface water or sanitary sewer system.

**Methods for cleaning up:** Scrape up excess and dispose of at an approved site.

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#### 7. HANDLING AND STORAGE

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**Handling precautions:** Not applicable.

**Storage conditions:** Store in closed containers between + 5°C and + 30°C in dry conditions. Avoid extremes of temperature.

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#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Control parameters:** Not applicable.

**Engineering measures:** Not applicable.

**Personal protection equipment:**

**Respiratory protection:** Not applicable.

**Hand protection:** Gloves.

**Eye protection:** Goggles.

**Skin and body protection:** Not applicable.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Colour	White	Explosive properties	Not applicable.
Form	White paint	Oxidizing properties	Not applicable.
Odour	Low odour .	Vapour pressure	Not applicable.
pH as supplied	7.2 – 8.2	Bulk density	1.28 to 1.31 g/cm <sup>3</sup>
Boiling point/range	Not determined.	Solubility:	
Melting point/range	Not applicable.	Water solubility	Miscible.
Flash point	Not applicable.	Partition coefficient (n-octanol/water)	Not applicable.
Flammability (solid, gas)	Not applicable.	Other data	
Auto ignition temperature	Not applicable.		

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Avoid extremes of temperature especially frost and freezing conditions.

**Materials to avoid:** None, under normal conditions of use.

**Hazardous decomposition products:** No decomposition if stored and applied as directed.

## 11. TOXICOLOGICAL INFORMATION

Not Applicable

## 12. ECOLOGICAL INFORMATION

Not Applicable

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations at approved sites.

## 14. TRANSPORT INFORMATION

UK road/rail	Not applicable. None hazardous.
IMDG	Not applicable. None hazardous.
ICAO	Not applicable. None hazardous.
ADR	Not applicable. None hazardous.

## 15. REGULATORY INFORMATION

Supply classification:

Hazard symbol(s):



May product an allergic reaction.

Trace elements carry the following H-phrases for their bulk material:  
H301 H302 H311 H314 H315 H317 H318 H330 H400 H410 H411

**Risk phrases:** -  
**Safety phrases:** S2 – Keep out of the reach of children  
S23 – Do not breathe vapour/spray.

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## 16. OTHER INFORMATION

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<b>Recommended use</b>	Decorative coating with fire retardant properties.
<b>Further information</b>	Consult technical data sheet.
<b>History</b>	
<b>Date of printing</b>	27 July 2023
<b>Date of issue</b>	March 2018
<b>Version</b>	5
<b>Prepared by</b>	Intumescent Systems Limited

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the most recent REACH Regulations. The product should not be used for purposes other than those shown without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. This information contained in the safety data sheet is based on present knowledge and current EU legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

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