



### Product Number: 80 Fire Protection Coating for PVC Electrical Cables

#### **Description:**

Water based, odourless, white intumescent fire retardant coating for cables with plastic casing to prolong the functions of the cables in the event of a fire. The coating has no harmful effect on working cables and helps to inhibit PVC fumes in the event of a fire. After application, the coating allows some flexibility without cracking.

When exposed to fire or heat, the product develops a microporous intumescent foam layer which protects the cable with its low caloric conductivity.

#### **Recommendation for use:**

Can be applied using brush or spray

Up to 10% water dilution allowed when spraying but ensure correct loadings are applied to area to give maximum fire protection - please contact the technical department for further information.

Please observe basic rules for working with paints

Drying time: Dries in approximately 1 hour. Thoroughly dry after 24-48 hours depending on the temperature of the surroundings.

Storage: Can be stored for up to 6 months at room temperature protected from frost.

#### **Ordering References:**

Available in 1 litre, 2.5 litre, 5litre and 20 litre containers

REF: EP/C (+ size required)

*Note: the coating can be coloured if required (extra cost applies)*

#### **Test Details:**

This product was used to protect cables exposed to the furnace conditions of BS476 Part 22 (1987). Throughout the 97 minutes of testing the cables continued to carry current.

|                     | <u>Integrity</u> | <u>Insulation</u> |
|---------------------|------------------|-------------------|
| Chiltern – RF95001  | 181 Minutes      | 181 Minutes       |
| Trada – TFEIF 95023 | 138 Minutes      | N/A               |

# APPLICATION DATA SHEET



**ENVIROGRAF®**

AP080-08-2016

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### **Application:**

Ensure surface is dry and grease free. Old peeling paint should be removed completely before application.

Stir well before use. Product can be applied using brush or spray. Please observe basic rules for working with paints. Apply at temperatures of over 10°C and a relative humidity of under 18%.

Each litre covers approximately 1m<sup>2</sup> of bunched cables or approximately 20m of 25mm diameter cable.

Up to 10% water dilution allowed when spraying but ensure correct loadings are applied to area to give maximum fire protection - please contact the technical department for further information.

Drying time: Dries in approximately 1 hour. Thoroughly dry after 24-48 hours depending on the temperature of the surroundings.

### **Tools:**

Leave brush in cold soapy water then clean with brush cleaner.



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

- (Appendix 13) E/PC coating for cables



\*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 13**  
*EP/C COATING FOR CABLES*

20<sup>th</sup> March 2018**1. IDENTIFICATION OF THE PREPARATION AND COMPANY**

|                         |  |
|-------------------------|--|
| PRODUCT NAME:           | EP/C coating for cables                              |
| 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                           |

**2. HAZARDS IDENTIFICATION**

|                                  |   |   |
|----------------------------------|---|---|
| <b>Hazard pictogram:</b>         |    | Warning   |
| Hazard statement:                |   | 1.3.5-Triazine-2.4.6-Triamine. Suspected of causing cancer. May cause damage to to organs through prolonged or repeated exposure. |
| <b>Health effects:</b>           |   |   |
| <b>Hazard Symbol</b>             |  | May produce an allergic reaction  |
| <b>Skin</b>                      |   | May cause slight irritation on prolonged / repeated contact.  |
| <b>Eyes</b>                      |   | May cause some irritation.  |
| <b>Inhalation</b>                |   | No hazard under normal conditions of use.   |
| <b>Ingestion</b>                 |   | Low toxicity.   |
| <b>Physical/chemical effects</b> |   | Not applicable.   |

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

**Chemical characterization**                      Aqueous (emulsion) polymer system.

**Hazardous components: -**

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)-isothiazolone / 2 – methyl3(2H)-isothiazolone (3:1) < 0.0000026% H311 / H330 / H314 / H317 / H400 / H410 / H318

**Labelling with: EUH208** Contains - 5-chloro-2-methy-3(2H)-isothiazolone / 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.

#### 4. FIRST AID MEASURES

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|                      |  |
|----------------------|--|
| <b>Skin contact:</b> | Remove contaminated clothing and wash contaminated skin with soap and water.               |
| <b>Eye contact:</b>  | Wash with water for several minutes. If irritation persists seek medical advice.           |
| <b>Inhalation:</b>   | Remove the casualty to fresh air.  |
| <b>Ingestion:</b>    | 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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|   |   |
|---|---|
| <b>Extinguishing media:</b>   | Foam, carbon dioxide, powder, and water spray.                                    |
| <b>Extinguishing media which must not be used for safety reasons:</b> | None known  |
| <b>Special exposure hazards:</b>                                      | None known.   |
| <b>Special protective equipment for fire-fighters:</b>                | Chemical protection suit / gloves / boots and self-contained breathing apparatus. |

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#### 6. ACCIDENTAL RELEASE MEASURES

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|                                  |  |
|----------------------------------|--|
| <b>Personal precautions:</b>     | Use personal protection equipment.                             |
| <b>Environmental precautions</b> | Do not dispose of into surface water or sanitary sewer system. |
| <b>Methods for cleaning up</b>   | Scrape up excess and dispose of at an approved site.           |

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#### 7. HANDLING AND STORAGE

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|                              |   |
|------------------------------|---|
| <b>Handling precautions:</b> | Not applicable.   |
| <b>Storage conditions:</b>   | 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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|                                       |                 |
|---------------------------------------|-----------------|
| <b>Control parameters</b>             | Not applicable. |
| <b>Engineering measures</b>           | Not applicable. |
| <b>Personal protection equipment:</b> |                 |
| <b>Respiratory protection</b>         | Not applicable. |
| <b>Hand protection</b>                | Gloves.         |
| <b>Eye protection</b>                 | Goggles.        |
| <b>Skin and body protection</b>       | Not applicable. |

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

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|                            |                 |                                  |                 |
|----------------------------|-----------------|----------------------------------|-----------------|
| <b>Colour</b>              | White           | <b>Flash point</b>               | Not applicable. |
| <b>Form</b>                | White paint     | <b>Flammability (solid, gas)</b> | Not applicable. |
| <b>Odour</b>               | Low odour.      | <b>Auto ignition temperature</b> | Not applicable. |
| <b>pH as supplied</b>      | 7.2 – 8.2       | <b>Explosive properties</b>      | Not applicable. |
| <b>Boiling point/range</b> | Not determined. | <b>Oxidizing properties</b>      | Not applicable. |
| <b>Melting point/range</b> | Not applicable. | <b>Vapour pressure</b>           | Not applicable. |

**Bulk density** 1.28 to 1.31 g/cm<sup>3</sup>

**Solubility:**

**Water solubility**

Miscible.

**Partition coefficient  
(n-octanol/water)**

Not applicable.

**Other data**

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**10. STABILITY AND REACTIVITY**


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**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.

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**11. TOXICOLOGICAL INFORMATION**


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Not Applicable

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**12. ECOLOGICAL INFORMATION**


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Not Applicable

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**13. DISPOSAL CONSIDERATIONS**


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Dispose of in accordance with local regulations at approved sites.

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**14. TRANSPORT INFORMATION**


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|                     |                                 |
|---------------------|---------------------------------|
| <b>UK road/rail</b> | Not applicable. None hazardous. |
| <b>IMDG</b>         | Not applicable. None hazardous. |
| <b>ICAO</b>         | Not applicable. None hazardous. |
| <b>ADR</b>          | Not applicable. None hazardous. |

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**15. REGULATORY INFORMATION**


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**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:**

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**Safety phrases:**

S2 – Keep out of the reach of children  
S23 – Do not breathe vapour/spray.