

APPLICATION DATA SHEET



ENVIROGRAF®

AP080-08-2016

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.

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 1m² 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

20th March 2018**1. IDENTIFICATION OF THE PREPARATION AND COMPANY**

PRODUCT NAME:	EP/C coating for cables
MANUFACTURER/SUPPLIER:	Envirograf
ADDRESS:	Envirograf House, Barfreestone, 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**Health effects:****Hazard Symbol**

May produce 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.

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
- Pyrithione 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.

4. FIRST AID MEASURES

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.

5. FIRE-FIGHTING MEASURES

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.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

Handling precautions:	Not applicable.
Storage conditions:	Store in closed containers between + 5°C and + 30°C in dry conditions. Avoid extremes of temperature.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

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:

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Safety phrases:

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

16. OTHER INFORMATION

Recommended use Decorative coating with fire retardant properties.
Further information Consult technical data sheet.

History

Date of printing	11 May 2018
Date of issue	March 2018
Version	5
Prepared by	Intumescent Systems Limited

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the CHIP Regulations. The product should not be used for purposes other than those shown in section 1 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 national 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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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