

TECHNICAL DATA SHEET

**ENVIROGRAF®**

TD105-05-2023

Product Number: 105 – EP/CP

Description:

A white aqueous dispersion coating, offering protection to plasterboard, lath-and-plaster ceilings of various thicknesses, coving & concrete ceilings and walls. The coating fire protects and insulates the concrete and also insulates the steel work within the layer of concrete. The coating develops a micro porous intumescent layer with a smooth decorative finish. When attacked by fire, the intumescent material protects the coated area's integrity and insulation. Please note that lath-and-plaster ceilings must have sound plaster adhered to the laths. If the plaster is sagging, DO NOT USE PRODUCT 105. Instead, use Product 53 – Under-Floor Fire Barrier instead.

Availability:

Colour Range: Ask for details
Sizes: 1, 2.5, 5, 20 litres

Material Specification:

Physical state: A slightly textured low viscosity paste.
Odour: Slight.
Specific Gravity at 20°C: 1.25 to 1.35.
Solubility in water: Completely soluble.
Storage: Store in closed containers between +5°C and +30°C.

Coating System:

Application to 9mm or 12½mm thick plasterboard, 18mm & thicker lathe-and-plaster walls and ceilings 2 coats @ 8m² per litre per coat to achieve 1 hour integrity and insulation. For concrete walls apply 3 coats @ 8m² per litre per coat to achieve 2 hours fire protection.

Cleaning:

Wash tools with clean water immediately after use.

Preparation & Application

Clean all walls or ceilings, taking off any loose paint and removing all wall or ceiling paper. Any grooves or cracks in the ceiling or walls can be made good with Envirograf® Intumescent Cement – Product 63 or AM Intumescent Mastic – Product 58.

Should it be found that EP/CP will not adhere to the existing coating, then either apply a PVA Adhesive Coating at a 50/50 ratio of adhesive to water, or apply 1 coat of Envirograf® EP/CP/P Adhesion Primer at 14 m² per litre. Then apply 2 coats of EP/CP at the rate of 8 m² per litre, per coat.

The approximate drying time is 1 hour.

If you wish to overcoat EP/CP use any make of external smooth acrylic emulsion or Envirograf® HW/AEC acrylic coating at 10 m² per litre per coat. This can be coloured and is available in matt finish. For walls: Apply using a good quality fine filament synthetic brush or medium pile woven roller.

For airless spray: Dilution may be required.

Nozzle: Number 13-15* (0.0013-0.0015)
Pressure: 150 bar

For further information contact the Technical Department.

Health & Safety:

Please refer to health & safety data sheet.

Test Details:

	<u>Integrity</u>	<u>Insulation</u>
Warrington – 165449	62 Minutes	62 Minutes
Lafarge – LPL 159	72 Minutes	71 Minutes
In House Testing to BS 476	68 Minutes	68 Minutes

(Concrete Lintel with steel rods through middle).

APPLICATION DATA SHEET

**ENVIROGRAF®**

AP105-03-2023

Product Number: 105

EP/CP

FOR UPGRADING 9 MM PLASTERBOARD AND LATHE & PLASTER CEILINGS
TO IN EXCESS OF 1 HOUR FIRE PROTECTION

Description:

EP/CP is a smooth Intumescent Coating that has been fully tested to BS476: Parts 20, 21 & 22: 1987, BS476: Parts 6 & 7, EU EN BSI Test to A1-B/S1/d0 of European Standards, EN13505, EN13823:2002 Single Burn and SBI EN11925:2 2002 Ignitability.

Note: EP/CP is a water based product but once dry does not require further coating and will last for years.

Preparation & Application:

Clean all walls or ceilings, taking off any loose paint and removing all wall or ceiling paper. Any grooves or cracks in the ceiling or walls can be made good with Envirograf® Intumescent Cement – Product 63 or AM Intumescent Mastic – Product 58.

Should it be found that EP/CP will not adhere to the existing coating, then either apply a PVA Adhesive Coating at a 50/50 ratio of adhesive to water, or apply 1 coat of Envirograf® EP/CP/P Primer at 14 m² per litre. Then apply 2 coats of EP/CP at the rate of 8 m² per litre, per coat. The approximate drying time is 1 hour.

Should you wish to overcoat EP/CP most makes of external Smooth Acrylic Emulsion can be used, however if using your own top coat we would advise carrying out a sample test for compatibility or you can apply Envirograf® HW Acrylic Coating at 10m² per litre, per coat; apply one coat for internal applications and 2 coats for external applications. This can be coloured and is available in a matt finish.

EP/CP and all the top coats can be coloured.

EP/CP can be painted onto all cornices or plaster mouldings with the same top coats applied.

Where cornices have gold leaf on them, a clear coating HW02/E can be applied – 3 coats at 8 m² per litre, per coat.

Tools:

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

SAFETY DATA SHEET



ENVIROGRAF®

HS105-EP/CP-07-2023

Product Number: 105

EP/CP

Description:

A white or coloured aqueous dispersion coating, offering protection to plasterboard and lath-and-plaster ceilings of various thicknesses. It develops a microporous intumescent layer with a smooth decorative finish. When attacked by fire, the intumescent material protects the coated area's integrity and insulation for a period in excess of one hour. Envirograf® Product 92 (ES/AEC acrylic emulsion coating) can be applied over the smooth coating.

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

- (Appendix 17) EP/CP

*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

EPCP

20th March 2018

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME:	EP/CP
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



Hazard pictogram:

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.

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.

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

Labeling 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

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
Form	White paint
Odour	Low odour .
pH as supplied	7.2 – 8.2
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
Solubility:	
Water solubility	Miscible.
Partition coefficient (n-octanol/water)	Not applicable.
Other data	

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.

16. OTHER INFORMATION

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

History

Date of printing	20 July 2023
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 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.
