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Scan the QR code to find out the validity of the certificate.

CERTIFICATE OF CONSTANCY OF PERFORMANCE

1220-CPR-2371

In compliance with Regulation (EU) 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

HW02E
42 HW02
Fire retardant products

Placed on the market under the name of **INTUMESCENT SYSTEMS LTD**
Envirograf House
Barfrestone
Dover CT15 7JG, UK

And produced in the manufactured plant **Factory plants according to annex N of ETA 23/0389**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in the

ETA 23/0389 issued on 17.07.2023
and
EAD 350865-00-1106,

under system 1 for the performances set out in the ETA are applied and that the factory production control conducted by the manufacturer is assessed to ensure the **constancy of performance of the construction product.**

This certificate was first issued on **10.11.2023** and will remain valid as long as neither the ETA, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the ITeC.

FERRAN BERMEJO NUALART

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Fecha: 2023.11.13 18:10:47 +01'00'

Ferran Bermejo Nualart
Technical Director

CE
Notified Body 1220

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APPLICATION DATA SHEET

ENVIROGRAF®

AP042- HW Ultimate White-11-2018

Product Number: 42

HW Ultimate White

Description:

HW Ultimate white is a premium quality satin sheen finish for the use over HW01 that is suitable for interior and exterior use on wood. It provides a low odour, high opacity finish that is quick drying and non-yellowing.

Preparation:

Apply 1 coat of HW Ultimate White at 10-12m² per litre for internal use and apply 2 coats for external use.
Avoid the inhalation of dust, wear a suitable face mask if dry sanding. Treat knots with Knotting Solution and prime exposed wood. Special precautions should be taken during surface preparation of pre-1960's paint surfaces over wood as they may contain harmful lead. For further advice contact Technical on 01304 842555

Application:

Stir well before use and apply by brush or roller. Apply liberally and evenly for a smooth finish. Two coats **must** be used for external use.
Do not apply in temperatures below 10°C or in damp conditions.

Cleaning:

Remove as much paint as possible from application equipment before cleaning. Replace lid firmly. Clean equipment immediately after use with warm soapy water and rinse thoroughly. Some local authorities have special facilities for the disposal of waste coatings. Do not empty product into drains or watercourses.

Precautions:

- Ensure good ventilation during application and drying.
- Avoid contact with skin and eyes.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- After contact with skin, wash immediately with plenty of soap and water or a recognised skin cleaner.
- Keep out of the reach of children.
- Safety data sheet available for professional user on request.

Relevant Data:

Volume Solid	35%
Coverage	Approximately 12m² per litre depending on the nature and porosity of the surface.
Film Thickness	Wet: 80 μ m, Dry: 28 μ m.
Drying Time	Touch dry in 1–2 hours. Re-coatable after 4 hours.
Thinner	Clean water.
Sizes	1 Litre**, 2.5 Litre, 5 Litre.

VOC Content:

Medium VOC content 8-24.99%

VOC's (Volatile Organic Compounds) contribute to atmospheric pollution.

EU limit value for this product (Cat A/d): 130g/l (2010).
This product contains max 130g/l VOC.

SAFETY DATA SHEET

ENVIROGRAF®

Product Number: 42

HW Ultimate White

HW Ultimate white is a premium quality satin sheen finish that is suitable for interior and exterior use on wood. It provides a low odour, high opacity finish that is quick drying and non-yellowing.

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

- (*Appendix 65)* HW Ultimate White

*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 65
HW ULTIMATE WHITE TOP COAT

DATE OF ISSUE 12.09.2018

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

1.1 Product identifier
Product name : HW Ultimate White Top Coat
Product code : Not available
Other means of identification : Not available

1.2 Relevant identified uses of the substance or mixture and uses advised against
Product use : Consumer applications, Professional applications
Use of the substance/Mixture : Coating

1.3 Details of the supplier of the safety data sheet
Envirograf
Envirograf House, Barfrestone, Dover, Kent, CT15 7JG
Telephone/fax/email: 01304 842555 01304 842666 sales@envirograf.com
1.4 Emergency telephone number: Supplier 01304 842555 (Not 24 Hours)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Product definition : Mixture
Classification According to Regulation (EC) No. 1272/2008 [CLP/GHS]:
Not classified
The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above
See Section 11 for more detailed information on health effects and symptoms.

2.2 Label Elements
Signal word : No signal word
Hazard statements : No known significant effects or critical hazards
Precautionary statements
General: Keep out of reach of childen. If medical advice is needed, have product container or label at hand
Prevention : Not applicable
Response : Not applicable
Storage : Not applicable
Disposal : Not applicable
P102, P101
Hazardous ingredients : Not applicable
Supplemental label elements: Contains 1,2-benzisothiazol-3(2H)-1, reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500- 7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6} (3:1) and 1,2-benzothiazol-3 (2H)-one. May produce an allergic reaction.
Annex XVII- Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.: Not Applicable
Special packaging requirements
Containers to be fitted with child-resistant fastenings : Not applicable
Tactile warning of danger: Not applicable
2.3 Other hazards
Other hazards which do not result in classification: None known

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures :Mixture

Product/ingredient name	Identifiers	% by weight	Classification Regulation (EC) No. 1272/2008 [CLP]	Type
Propane-1,2-diol	REACH #: 01-2119456809-23 EC: 200-338-0 CAS: 57-55-6	≥1.0 – ≤5.0	Not classified	[2]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type
[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
[5] Substance of equivalent concern
[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.
SUB codes represent substances without registered CAS Numbers.

4. FIRST AID MEASURES

4.1 Description of first aid

Eye contact: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelid seek immediate medical advice.
Inhalation: Remove to fresh air, keep patient warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin Contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or a recognized skin cleaner. DO NOT USE SOLVENT OR THINNERS.
Ingestion: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. DO NOT induce vomiting
Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: No known significant effects or critical hazards
Inhalation	: No known significant effects or critical hazards
Skin contact	: No known significant effects or critical hazards
Ingestion	: No known significant effects or critical hazards

Over-exposure signs/symptoms

Eye contact	: No specific data
Inhalation	: No specific data
Skin contact	: No specific data
Ingestion	: No specific data

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled
Specific treatments: No specific treatment.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire
Unsuitable extinguishing media: None known

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture: In a fire or if heated, a pressure increase will occur and the container may burst
Hazardous combustion products: Decomposition products may include the following materials: carbon oxides, metal oxide/oxides

5.3 Advice for firefighters

Special precautions for firefighters: Promptly isolate the scene by removing all persons from the vicinity of the incident there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for firefighters: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN469 will provide a basic level of protection for chemical incidents

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding area. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel."

6.2 Environmental precautions: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers waterways, soil or air)

6.3 Methods and material for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other Sections : See Section 1 for emergency contact information
See Section 8 for information appropriate personal protective equipment
See Section 13 for additional waste treatment information

7. HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s)

7.1 Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist.. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should was hands and face before eating drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities: Storage temperature 5 to 25°C (41 to 77°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s)

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Propane-1,2-diol	EH40/2005 WELs (United Kingdom, 12/2011) TWA: 10 mg/m³ 8 hours. Form: Particulates TWA: 150 ppm 8 hours. Form: sum of vapour and particulates TWA: 474 mg/m³ 8 hours. Form: sum of vapour and particulates

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
Propane-1,2-diol	DNEL	Long term inhalation	168 mg/m³	Workers	Systemic
	DNEL	Long term inhalation	10 mg/m³	Workers	Local
	DNEL	Long term inhalation	50 mg/m³	Consumers	Systemic
	DNEL	Long term inhalation	10 mg/m³	consumers	Local

PNECs

Product/ingredient name	Type	Compartment detail	Value	Method detail
Propane-1,2-diol	-	Fresh Water	260 mg/l	Assessment Factors
	-	Marine water	26 mg/l	Assessment Factors
	-	Sewage treatment plant	20000 mg/l	Assessment Factors
	-	Fresh water sediment	572 mg/kg dwt	Equilibrium Partitioning
	-	Marine water sediment	57.2 mg/kg dwt	Equilibrium Partitioning
	-	Soil	50 mg.kg dwt	Equilibrium Partitioning

8.2 Exposure controls

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety glasses with side shields. Use eye protection according to EN 166

Skin protection

Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Gloves: For prolonged or repeated handling, use the following type of gloves: Recommended: Viton®

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Liquid
Colour	: White
Odour	: Faint odour
Odour threshold	: Not available
pH	: 8
Melting/freezing point	: May start to solidify at the following temperature: 0°C (32°F). This is

	based on data for the following ingredient: Water. Weighted average: --0.72°C (30.7°F)
Initial boiling point and boiling range	: >37.78°C
Flash point	: Closed cup: Not applicable [Product does not sustain combustion]
Evaporation rate	: 0.01 (propane-1,2diol) compared with butyl acetate
Material supports combustion	: No
Flammability (solid, gas)	: Liquid
Upper/lower flammability or explosive limits	: Not applicable
Vapour pressure	: Highest known value: 3.2 kPa (23.8mm Hg) (at 20°C) (water) Weighted Average: 3.1 kPa (23.33 mm Hg) (at 20°C)
Vapour density	: Highest known value: 2.6 (Air = 1) (propane-1,2-diol)
Relative density	: 1.22
Solubility(ies)	: Partially soluble in the following materials: cold water
Partition coefficient: n-octanol/ water	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Stable under recommended storage and handling conditions (see Section 7)
Viscosity	: Kinematic (40°C): >0.21cm²/s
Explosive properties	: Product does not present an explosion hazard
Oxidising properties	: Product does not present an explosion hazard

9.2 Other information
No additional information.

10. STABILITY AND REACTIVITY

10.1 Reactivity: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability: The product is stable
10.3 Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reaction will not occur
10.4 Conditions to avoid: When exposed to high temperature may produce hazardous decomposition products. Refer to protective measures listed in Sections 7 & 8
10.5 Incompatible materials: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products: Decomposition products may include the following materials carbon oxides,metal oxide / oxides

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Propane-1,2-diol	LD50 Dermal LD50 Oral	Rabbit Rat	20800 mg/kg 20 g/kg	- -

Conclusion/Summary : There are no data available on the mixture itself

Acute toxicity estimates

Route	ATE value
Not available	

Irritation/Corrosion
Conclusion/Summary
Skin : There are no data available on the mixture itself
Eyes : There are no data available on the mixture itself
Respiratory : There are no data available on the mixture itself
Sensitisation
Conclusion/Summary
Skin : There are no data available on the mixture itself
Respiratory : There are no data available on the mixture itself
Mutagenicity
Conclusion/Summary : There are no data available on the mixture itself

Carcinogenicity
Conclusion/Summary : There are no data available on the mixture itself
Reproductive toxicity
Conclusion/Summary : There are no data available on the mixture itself
Teratogenicity
Conclusion/Summary : There are no data available on the mixture itself

Specific target organ toxicity (single exposure)
Not available

Specific target organ toxicity (repeated exposure)
Not available

Aspiration hazard
Not available
Information on the likely routes of exposure – Not available

Potential acute health effects
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Eye contact : No known significant effects or critical hazards.
Symptoms related to the physical chemical and toxicological characteristics
Inhalation : No specific data
Ingestion : No specific data
Skin contact : No specific data
Eye contact : No specific data
Delayed and immediate effects and also chronic effects from short and long term exposure
Short term exposure
Potential immediate effects : Not available
Potential delayed effects : Not available
Long term exposure
Potential immediate effects : Not available
Potential delayed effects : Not available
Potential chronic health effects
Not available

Conclusion/Summary : Not available
General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.
Other information : Not available

There are no data available on the mixture itself. The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.
If splashed in the eyes, the liquid may cause irritation and reversible damage.
This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 1,2-benzisothiazol-3(2H)-1, reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500- 7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6} (3:1) and 1,2-benzothiazol-3 (2H)-one. May produce an allergic reaction.

12. ECOLOGICAL INFORMATION

12.1 Toxicity:
Conclusion/Summary : There are no data available on the mixture itself
12.2 Persistence and degradability:
Conclusion/Summary : There are no data available on the mixture itself

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Propane-1,2-diol	-0.92	-	Low

12.4 Mobility in soil
Soil/water partition Coefficient (Koc): Not available
Mobility : Not available
12.5 Results of PBT abd vPvB assessment
PBT : Not applicable
vPvB : Not applicable
12.6 Other adverse effects : No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s)

13.1 Waste treatment methods

Product

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protections and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

European waste catalogue (EWC)

Waste code	Waste designation
08 01 12	Waste paint and varnish other than those mentioned in 08 01 11

Packaging

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)
Container	15 01 02 plastic packaging 15 01 04 metallic packaging

Special precautions: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 environmental hazards	No	No	No	No
Marine pollutant substances	Not applicable	Not applicable	Not applicable	Not applicable

Additional information
ADR/RID : None identified
ADN : None identified
IMDG : None identified
IATA : None identified

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV – List of substances subject to authorisation
Annex XIV
None of the components are listed.
Substances of very high concern
None of the components are listed
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: not applicable
Other EU regulations
Ozone depleting substances (1005/2009/EU) : Not listed
VOC for Read-for-Use Mixture: IIA/d. Interior/exterior trim and cladding paints for wood and metal. EU limit values: 130g/l (2010) This product contains a maximum of 80g/l VOC
Seveso Directive
This product is not controlled under the Seveso Directive
15.2 Chemical Safety Assessment: No Chemical Safety Assessment has been carried out.

16. OTHER INFORMATION

Abbreviations and acronyms :
ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
PBT = Persistent, Bioaccumulative and Toxic
vPvB = Very Persistent and Very Bioaccumulative
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
IMDG = International Maritime Dangerous Goods
IATA = International Air Transport Association

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified	

Full text of abbreviated H Statements – not applicable
Full text of classifications [CLP/GHS] – not applicable

History
Date of Issue/date of revision 12th September 2018
Date of previous issue 18th February 2015
Prepared by – Intumescent Systems Ltd

Disclaimer
The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

TECHNICAL DATA SHEET

ENVIROGRAF®

Product Number: 42

HW Ultimate White

Description:

HW Ultimate white is a premium quality satin sheen finish that is suitable for interior and exterior use on wood. It provides a low odour, high opacity finish that is quick drying and non-yellowing.

Key Properties:

- Non-yellowing.
- High opacity.
- Quick drying.
- Low odour satin finish.

Recommended Uses:

Suitable for interior and exterior use

Relevant Data:

Volume Solid	35%
Coverage	Approximately 10-12m² per litre depending on the nature and porosity of the surface.
Film Thickness	Wet: 80 μ m, Dry: 28 μ m.
Drying Time*	Touch dry in 1–2 hours. Re-coatable after 4 hours.
Thinner	Clean water.
Sizes	1 Litre**, 2.5 Litre, 5 Litre.

VOC Content:

Medium VOC content 8-24.99%

VOC's (Volatile Organic Compounds) contribute to atmospheric pollution.

EU limit value for this product (Cat A/d): 130g/l (2010).
This product contains max 130g/l VOC.

TECHNICAL DATA SHEET

ENVIROGRAF®

TD042-HW Superb White-08-2018

Product Number: 42

HW Superb White Top Coat

Description:

HW Superb White is an innovative, water based, high sheen gloss, for use on interior and exterior wood.

It looks, feels and applies like a traditional gloss, but is quick drying - reducing application times, has a low odour and contains less atmospheric polluting VOC's.

Suitable for interior and exterior use.

Key Features:

- High gloss finish, superb appearance.
- Normally touch dry in 1–2 hours, rooms reusable quickly.
- Low solvent, low odour.

VOC Content:

Low VOC content 0.30-7.99%
VOC's (Volatile Organic Compounds) contribute to atmospheric pollution.
EU limit value for this product (Cat A/d): 130g/l (2010).
This product contains max 30g/l VOC.

Ordering references:

HW Superb + size required

Available in 1, 2.5 and 5litre containers. Can also be supplied in BS or RAL colours; contact technical department for further information.

ENVIROGRAF HOUSE, BARFRESTONE, NR. DOVER, KENT, CT15 7JG, TEL: 01304 842555, FAX: 01304 842666

APPLICATION DATA SHEET

ENVIROGRAF®

AP042-HW Superb White-08-2018

Product Number: 42

HW Superb White Top Coat

Description:

HW Superb White is an innovative, water based, high sheen gloss, for use on interior and exterior wood.

It looks, feels and applies like a traditional gloss, but is quick drying - reducing application times, has a low odour and contains less atmospheric polluting VOC's.

Suitable for interior and exterior use.

Application:

All surfaces to be painted should be clean, dry and free from loose and flaking material.

Coverage is approximately 10 -12 square metres per litre.

Stir well before use. Easy to apply by brush. Avoid overspreading. Do not apply in temperatures below 10°C or externally when rain is imminent. Apply one coat for internal applications and two coats for external applications.

Touch dry in 1 – 2 hours. Recoatable after 4 – 6 hours.

Clean equipment immediately after use with warm soapy water and rinse thoroughly.

Precautions:

- Ensure good ventilation during application and drying.
- Avoid contact with skin and eyes.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- After contact with skin, wash immediately with plenty of soap and water or a recognised skin cleaner.
- Keep out of the reach of children.
- Safety data sheet available for professional user on request.

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SAFETY DATA SHEET

ENVIROGRAF®

HS042-HW Superb White-08-2018

Product Number: 42

HW Superb White Top Coat

Description:

A water based product to apply over HW01 – no need for an undercoat. Available in Gloss finish.

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

- *(Appendix 20)* HW Superb White

*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 20
HW SUPERB WHITE WATER BASED TOP COAT

Issue 3. August 2018

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME:	HW Superb White Water Based Top Coat
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)

2. HAZARDS IDENTIFICATION

HEALTH EFFECTS:
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

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 & 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:

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:	Slight.
pH as supplied:	7-8
Boiling point/range:	Not applicable.
Melting point/range:	Not applicable.
Flash point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Autoignition temperature:	Not applicable.
Explosive properties:	Not applicable.
Oxidizing properties:	Not applicable.
Vapour pressure :	Not applicable.
Bulk density:	1.20 to 1.23g/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):	None.
Safety phrases:	None.

16. OTHER INFORMATION

Recommended use:	Top coat for use over HW01
Further information:	Consult technical data sheet.

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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Address:
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Barfrestone, Dover,
CT15 7JG, UK

Declaration of Performance (DoP)

Date of issue: 28 May 2026

Declaration Number: 1220-CPR-2370

1.	**UNIQUE IDENTIFICATION OF THE PRODUCT TYPE**	42 HW01
2.	**TYPE, PRODUCT OR SERIAL NUMBER**	See Packaging for Batch Number – takes the form of #123456
3.	**INTENDED USE**	Fire Retardant Products intended for Internal use on substrates greater than 9mm and with a density greater than or equal to 450Kg/m3. Substrates must be new or have existing coatings removed. Ref: ETA-23/0388 and EAD 350865-00-1106.
4.	**MANUFACTURER**	Intumescent Systems Ltd Envirograf House Barfrestone Dover Kent CT15 7JG
5.	**AUTHORISED REPRESENTATIVE**	N/A
6.	**SYSTEM OF AVCP**	System 1
7.	**CONSTRUCTION PRODUCT COVERED BY A HARMONISED STANDARD (hEN)**	Not Applicable
8.	**CONSTRUCTION PRODUCT COVERED BY A EUROPEAN TECHNICAL ASSESSMENT** **European Technical Assessment:** **Technical Assessment Body:** **Notified Body:** **Certificate of Constancy of Performance:**	EAD 350865-00-1106 ETA 23/0388 (Issue date: 17.07.2023) ITeC (Institut de Tecnologia de la Construccio de Catalunya) Wellington 19 ES08018 Barcelona 1220 1220-CPR-2370

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9.	**Declared Performance**		
	Essential Characteristics	**Performance**	**Harmonised Technical Specification**
	Reaction to fire	Class B-s1, d0	EN 13501 - 1
	Dangerous substances	This Product does not contain substances given in Annex XIV of REACH (authorisation List). Reference should be made to the Safety data sheet for classification in accordance with regulation (EC) No 1272/2008 and information relating to Annex XVII of REACH and Candidate List of substances of very high concern.	EAD 350865-00-1106
	Durability	The Durability of 42 HW01 has passed exposure Conditions Z_2.	EAD 350865-00-1106 Section 2.2.2

10. **The Performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.**

Appropriate Technical Documentation and/or Specific Technical Documentation: Link to the online copy of the declaration of performance: www.envirograf.com

Signed for and on behalf of the manufacturer by:

Managing Director, MAY 2026

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Declaration of Performance (DoP)

Date of issue: 10 JUNE 2026

Declaration Number: 1220-CPR-2371

1.	**UNIQUE IDENTIFICATION OF THE PRODUCT TYPE**	HW02E
2.	**TYPE, PRODUCT OR SERIAL NUMBER**	See Packaging for Batch Number – takes the form of #123456
3.	**INTENDED USE**	Fire Retardant Products intended for Internal use on substrates greater than 9mm and with a density greater than or equal to 450Kg/m3. Substrates must be new or have existing coatings removed. Ref: ETA-23/0389 and EAD 350865-00-1106.
4.	**MANUFACTURER**	Intumescent Systems Ltd Envirograf House Barfrestone Dover Kent CT15 7JG
5.	**AUTHORISED REPRESENTATIVE**	N/A
6.	**SYSTEM OF AVCP**	System 1
7.	**CONSTRUCTION PRODUCT COVERED BY A HARMONISED STANDARD (hEN)**	Not Applicable
8.	**CONSTRUCTION PRODUCT COVERED BY A EUROPEAN TECHNICAL ASSESSMENT** **European Technical Assessment:** **Technical Assessment Body:** **Notified Body:** **Certificate of Constancy of Performance:**	EAD 350865-00-1106 ETA 23/0389 (Issue date: 17.07.2023) ITeC (Institut de Tecnologia de la Construccio de Catalunya) Wellington 19 ES08018 Barcelona 1220 1220-CPR-2371

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CT15 7JG, UK

9.	**Declared Performance**		
	Essential Characteristics	**Performance**	**Harmonised Technical Specification**
	Reaction to fire	Class B-s2, d0	EN 13501 - 1
	Dangerous substances	This Product does not contain substances given in Annex XIV of REACH (authorisation List). Reference should be made to the Safety data sheet for classification in accordance with regulation (EC) No 1272/2008 and information relating to Annex XVII of REACH and Candidate List of substances of very high concern.	EAD 350865-00-1106
	Durability	The Durability of HW02E has passed exposure Conditions Z_2.	EAD 350865-00-1106 Section 2.2.2

10. The Performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

Appropriate Technical Documentation and/or Specific Technical Documentation: Link to the online copy of the declaration of performance: www.envirograf.com

Signed for and on behalf of the manufacturer by:

Managing Director, MAY 2026

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Declaration of Performance (DoP)

Date of issue: 10 JUNE 2026

Declaration Number: 1220-CPR-2371

1.	**UNIQUE IDENTIFICATION OF THE PRODUCT TYPE**	HW02
2.	**TYPE, PRODUCT OR SERIAL NUMBER**	See Packaging for Batch Number – takes the form of #123456
3.	**INTENDED USE**	Fire Retardant Products intended for Internal use on substrates greater than 9mm and with a density greater than or equal to 450Kg/m3. Substrates must be new or have existing coatings removed. Ref: ETA-23/0389 and EAD 350865-00-1106.
4.	**MANUFACTURER**	Intumescent Systems Ltd Envirograf House Barfrestone Dover Kent CT15 7JG
5.	**AUTHORISED REPRESENTATIVE**	N/A
6.	**SYSTEM OF AVCP**	System 1
7.	**CONSTRUCTION PRODUCT COVERED BY A HARMONISED STANDARD (hEN)**	Not Applicable
8.	**CONSTRUCTION PRODUCT COVERED BY A EUROPEAN TECHNICAL ASSESSMENT**	EAD 350865-00-1106
	European Technical Assessment:	ETA 23/0389 (Issue date: 17.07.2023)
	Technical Assessment Body:	ITeC (Institut de Tecnologia de la Construccio de Catalunya) Wellington 19 ES08018 Barcelona
	Notified Body:	1220
	Certificate of Constancy of Performance:	1220-CPR-2371

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9.	**Declared Performance**		
	Essential Characteristics	**Performance**	**Harmonised Technical Specification**
	Reaction to fire	Class B-s2, d0	EN 13501 - 1
	Dangerous substances	This Product does not contain substances given in Annex XIV of REACH (authorisation List). Reference should be made to the Safety data sheet for classification in accordance with regulation (EC) No 1272/2008 and information relating to Annex XVII of REACH and Candidate List of substances of very high concern.	EAD 350865-00-1106
	Durability	The Durability of 42 HW02 has passed exposure Conditions Z_2.	EAD 350865-00-1106 Section 2.2.2

10. The Performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

Appropriate Technical Documentation and/or Specific Technical Documentation: Link to the online copy of the declaration of performance: www.envirograf.com

Signed for and on behalf of the manufacturer by:

Managing Director, MAY 2026

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Designated according to Article 29 of Regulation (EU) No 305/2011

Member of EOTA
www.eota.eu

European Technical Assessment

ETA 23/0388 of 17.07.2023

General part

Technical Assessment Body issuing the ETA: ITeC ITeC has been designated according to Article 29 of Regulation (EU) No 305/2011 and is member of EOTA (European Organisation for Technical Assessment).	
Trade name of the construction product	**ES/VFR/W** **92 ES/VFR/W** **92 Q/VFR/W** **42 HW01** **EP/CP**
Product family to which the construction product belongs	Fire retardant products.
Manufacturer	**INTUMESCENT SYSTEMS LTD** Envirograf House Barfrestone Dover CT15 7JG United Kingdom
Manufacturing plant(s)	According to Annex N kept by ITeC.
This European Technical Assessment contains	6 pages and Annex N, which contains confidential information and is not included in the European Technical Assessment when that assessment is publicly available.
This European Technical Assessment is issued in accordance with Regulation (EU) 305/2011, on the basis of	European Assessment Document EAD 350865-00-1106.

General comments

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full (excepted the confidential annex(es)).

Specific parts of the European Technical Assessment

1 Technical description of the product

ES/VFR/W (also put on the market under the trade names 92 ES/VFR/W, 92 Q/VFR/W, 42 HW01, EP/CP) is a water-based intumescent coating designed to reduce the ignitability of wood-based boards, applied by brush, roller or spray gun, on the substrate as specified in section 2.

ES/VFR/W is applied together with a primer and a topcoat to make up a coating system as described in section 2. These ancillary products cannot be CE marked on the basis of this ETA.

2 Specification of the intended use(s) in accordance with the applicable EAD

ES/VFR/W is used as fire retardant product to improve the reaction to fire performance of a wood-based substrate surface of a construction product, excluding floorings.

Substrates must be dry and free from grease, dirt, dust, and other contaminants. Existing coatings other than the paints specified below must be completely removed.

ES/VFR/W can be applied to:

a. Any wood-based substrate with a thickness ≥ 9 mm and a density ≥ 450 kg/m^3, overpainted with water-based ES/VFR Clear Primer homogeneously applied in one layer at 12 m^2/litre (wet).

   ES/VFR/W shall be applied in two layers at 10 m^2/litre each (wet), homogeneously distributed over the substrate surface.

   Solvent-based Excel White topcoat is applied over ES/VFR/W in two layers at 10 m^2/litre each (wet).

b. Any wood-based substrate with a thickness ≥ 9 mm and a density ≥ 450 kg/m^3, overpainted with water-based ES/VFR Clear Primer homogeneously applied in one layer at 12 m^2/litre (wet).

   ES/VFR/W shall be applied in two layers at 10 m^2/litre each (wet), homogeneously distributed over the substrate surface.

   Water-based Premier White topcoat is applied over ES/VFR/W in two layers at 8 m^2/litre each (wet).

The wood-based substrate can be installed with or without an air gap behind. Butt joints can be installed between wood-based panels, completely covered by the coating system.

Regarding the environmental conditions, ES/VFR/W is intended for use category Type Z_2, defined as internal conditions with humidity lower than 85 % R.H., excluding temperatures below 0°C, in accordance with EAD 350865-00-1106, section 1.2.1.

The provisions made in this ETA are based on a working life of ES/VFR/W of at least 5 years, provided that the conditions laid down in the manufacturer's instructions for the installation, use and maintenance are met. These provisions are based upon the current state of the art and the available knowledge and experience.

The indications given as to the working life cannot be interpreted as a guarantee but are to be regarded only as a means for choosing the appropriate product(s) in relation to the expected economically reasonable working life of the works.

3 Performance of the product and reference to the methods used for its assessment

3.1 Performance of the product

The assessment of ES/VFR/W has been performed in accordance with EAD 350865-00-1106 *Fire retardant products (July 2018)*.

Table 1: Performance of the product.

Product: ES/VFR/W			**Intended use:** Fire retardant product
Basic requirement	**Essential characteristic**		**Performance**
BWR 2 Safety in case of fire	Reaction to fire	System a (section 2)	B-s1,d0
		System b (section 2)	B-s1,d0
	Durability		Type Z_2

The complete coating system (primer, intumescent coating and topcoat) as described in section 2 has been assessed.

The rest of characteristics included in EAD 350865-00-1106 have not been assessed in this ETA.

3.2 Methods used for the assessment

3.2.1 Reaction to fire

The performance of ES/VFR/W coating system has been tested according to EN 13823 [1] and EN ISO 11925-2 [2] on plywood according to EN 636 [3].

Classification is given in accordance with EN 13501-1 [4] and Regulation (EU) 2016/364.

Apart from the substrate specified in section 2, classification is also valid for any substrate of class A1 or A2-s1,d0.

3.2.2 Durability

The durability of ES/VFR/W coating system has been tested for environmental use conditions Type Z_2 in accordance with EAD 350865-00-1106, section 2.2.2.

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[1] EN 13823 *Reaction to fire tests for building products. Building products excluding floorings exposed to the thermal attack by a single burning item.*

[2] EN ISO 11925-2 *Reaction to fire tests. Ignitability of products subjected to direct impingement of flame. Part 2: Single-flame source test.*

[3] EN 636 *Plywood. Specifications.*

[4] EN 13501-1 *Fire classification of construction products and building elements. Part 1: Classification using data from reaction to fire tests.*

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

According to the Decision 1999/454/EC of the European Commission, the system of AVCP (see EC delegated Regulation (EU) No 568/2014 amending Annex V to Regulation (EU) 305/2011) given in the following table applies.

Table 2: AVCP System.

Product(s)	Intended use(s)	Level(s) or class(es)	System(s)
Fire protective products (including coatings)	Fire protection or fire performance	Any	1

5 Technical details necessary for the implementation of the AVCP system, as foreseen in the applicable EAD

All the necessary technical details for the implementation of the AVCP system are laid down in the *Control Plan* deposited with the ITeC and agreed in accordance with EAD 350865-00-1106, section 3.

The *Control Plan* is a confidential part of the ETA and only handed over to the notified product certification body involved in the assessment and verification of constancy of performance.

The factory production control operated by the manufacturer shall be in accordance with the above-mentioned *Control Plan*.

Issued in Barcelona on 17 July 2023

by the Catalonia Institute of Construction Technology.

ITeC

Institut de Tecnologia de la Construcció de Catalunya

Ferran Bermejo Nualart
Technical Director, ITeC

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Designated according to Article 29 of Regulation (EU) No 305/2011

Member of EOTA
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European Technical Assessment

ETA 23/0389 of 17.07.2023

General part

Technical Assessment Body issuing the ETA: ITeC

ITeC has been designated according to Article 29 of Regulation (EU) No 305/2011 and is member of EOTA (European Organisation for Technical Assessment).

Trade name of the construction product	**HW02E** **42 HW02**
Product family to which the construction product belongs	Fire retardant products.
Manufacturer	**INTUMESCENT SYSTEMS LTD** Envirograf House Barfrestone Dover CT15 7JG United Kingdom
Manufacturing plant(s)	According to Annex N kept by ITeC.
This European Technical Assessment contains	5 pages and Annex N, which contains confidential information and is not included in the European Technical Assessment when that assessment is publicly available.
This European Technical Assessment is issued in accordance with Regulation (EU) 305/2011, on the basis of	European Assessment Document EAD 350865-00-1106.

General comments

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full (excepted the confidential annex(es)).

Specific parts of the European Technical Assessment

1 Technical description of the product

HW02E (also put on the market under the trade name 42 HW02) is a water-based intumescent coating designed to reduce the ignitability of wood-based boards, applied by brush, roller or spray gun, on the substrate as specified in section 2.

HW02E is applied together with a primer and a topcoat to make up a coating system as described in section 2. These ancillary products cannot be CE marked on the basis of this ETA.

2 Specification of the intended use(s) in accordance with the applicable EAD

HW02E is used as fire retardant product to improve the reaction to fire performance of a wood-based substrate surface of a construction product, excluding floorings.

Substrates must be dry and free from grease, dirt, dust, and other contaminants. Existing coatings other than the paints specified below must be completely removed.

HW02E can be applied to any wood-based substrate with a thickness ≥ 9 mm and a density ≥ 450 kg/m^3, overpainted with water-based HWAP Clear Primer homogeneously applied in one layer at 12 m^2/litre (wet).

HW02E shall be applied in two layers at 8 m^2/litre each (wet), homogeneously distributed over the substrate surface.

Solvent-based Excel Clear topcoat is applied over HW02E in two layers, first at 8 m^2/litre (wet) and last at 10 m^2/litre (wet).

The wood-based substrate can be installed with or without an air gap behind. Butt joints can be installed between wood-based panels, completely covered by the coating system.

Regarding the environmental conditions, HW02E is intended for use category Type Z_2, defined as internal conditions with humidity lower than 85 % R.H., excluding temperatures below 0°C, in accordance with EAD 350865-00-1106, section 1.2.1.

The provisions made in this ETA are based on a working life of HW02E of at least 5 years, provided that the conditions laid down in the manufacturer's instructions for the installation, use and maintenance are met. These provisions are based upon the current state of the art and the available knowledge and experience.

The indications given as to the working life cannot be interpreted as a guarantee but are to be regarded only as a means for choosing the appropriate product(s) in relation to the expected economically reasonable working life of the works.

3 Performance of the product and reference to the methods used for its assessment

3.1 Performance of the product

The assessment of HW02E has been performed in accordance with EAD 350865-00-1106 *Fire retardant products (July 2018)*.

Table 1: Performance of the product.

Product: HW02E		**Intended use:** Fire retardant product
Basic requirement	**Essential characteristic**	**Performance**
BWR 2 Safety in case of fire	Reaction to fire	B-s1,d0
	Durability	Type Z_2

The complete coating system (primer, intumescent coating and topcoat) as described in section 2 has been assessed.

The rest of characteristics included in EAD 350865-00-1106 have not been assessed in this ETA.

3.2 Methods used for the assessment

3.2.1 Reaction to fire

The performance of HW02E coating system has been tested according to EN 13823 [1] and EN ISO 11925-2 [2] on plywood according to EN 636 [3].

Classification is given in accordance with EN 13501-1 [4] and Regulation (EU) 2016/364.

Apart from the substrate specified in section 2, classification is also valid for any substrate of class A1 or A2-s1,d0.

3.2.2 Durability

The durability of HW02E coating system has been tested for environmental use conditions Type Z_2 in accordance with EAD 350865-00-1106, section 2.2.2.

---

[1] EN 13823 *Reaction to fire tests for building products. Building products excluding floorings exposed to the thermal attack by a single burning item.*

[2] EN ISO 11925-2 *Reaction to fire tests. Ignitability of products subjected to direct impingement of flame. Part 2: Single-flame source test.*

[3] EN 636 *Plywood. Specifications.*

[4] EN 13501-1 *Fire classification of construction products and building elements. Part 1: Classification using data from reaction to fire tests.*

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

According to the Decision 1999/454/EC of the European Commission, the system of AVCP (see EC delegated Regulation (EU) No 568/2014 amending Annex V to Regulation (EU) 305/2011) given in the following table applies.

Table 2: AVCP System.

Product(s)	Intended use(s)	Level(s) or class(es)	System(s)
Fire protective products (including coatings)	Fire protection or fire performance	Any	1

5 Technical details necessary for the implementation of the AVCP system, as foreseen in the applicable EAD

All the necessary technical details for the implementation of the AVCP system are laid down in the *Control Plan* deposited with the ITeC and agreed in accordance with EAD 350865-00-1106, section 3.

The *Control Plan* is a confidential part of the ETA and only handed over to the notified product certification body involved in the assessment and verification of constancy of performance.

The factory production control operated by the manufacturer shall be in accordance with the above-mentioned *Control Plan*.

Issued in Barcelona on 17 July 2023

by the Catalonia Institute of Construction Technology.

ITeC

Institut de Tecnologia de la Construcció de Catalunya

Ferran Bermejo Nualart
Technical Director, ITeC

TECHNICAL DATA SHEET

ENVIROGRAF®

TD042-HW Superb White-06-2024

Product Number: 42

HW Superb White Top Coat

Description:

HW Superb White is an innovative, water based, matt, satin or gloss, for use on interior and exterior wood.

It looks, feels and applies like a traditional gloss, but is quick drying - reducing application times, has a low odour and contains less atmospheric polluting VOC's.

Suitable for interior and exterior use.

Key Features:

- High gloss finish, superb appearance.
- Normally touch dry in 1–2 hours, rooms reusable quickly.
- Low solvent, low odour.

VOC Content:

Low VOC content 0.30-7.99%
VOC's (Volatile Organic Compounds) contribute to atmospheric pollution.
EU limit value for this product (Cat A/d): 130g/l (2010).
This product contains max 30g/l VOC.

Ordering references:

HW Superb + size required

Available in 1, 2.5 and 5litre containers. Can also be supplied in BS or RAL colours; contact technical department for further information.

TECHNICAL DATA SHEET

ENVIROGRAF®

Product Number: 42

HW Ultimate White

Description:

HW Ultimate white is a premium quality satin sheen finish that is suitable for interior and exterior use on wood. It provides a low odour, high opacity finish that is quick drying and non-yellowing.

Key Properties:

- Non-yellowing.
- High opacity.
- Quick drying.
- Low odour satin finish.

Recommended Uses:

Suitable for interior and exterior use

Relevant Data:

Volume Solid	35%
Coverage	Approximately 10-12m² per litre depending on the nature and porosity of the surface.
Film Thickness	Wet: 80 μ m, Dry: 28 μ m.
Drying Time*	Touch dry in 1–2 hours. Re-coatable after 4 hours.
Thinner	Clean water.
Sizes	1 Litre**, 2.5 Litre, 5 Litre.

VOC Content:

Medium VOC content 8-24.99%

VOC's (Volatile Organic Compounds) contribute to atmospheric pollution.

EU limit value for this product (Cat A/d): 130g/l (2010).
This product contains max 130g/l VOC.

APPLICATION DATA SHEET

ENVIROGRAF®

AP042-HW Superb White-06-2024

Product Number: 42

HW Superb White Top Coat

Description:

HW Superb White is an innovative, water based, matt, satin or gloss, for use on interior and exterior wood.

It looks, feels and applies like a traditional gloss, but is quick drying - reducing application times, has a low odour and contains less atmospheric polluting VOC's.

Suitable for interior and exterior use.

Application:

All surfaces to be painted should be clean, dry and free from loose and flaking material.

Coverage is approximately 10 -12 square metres per litre.

Stir well before use. Easy to apply by brush. Avoid overspreading. Do not apply in temperatures below 10°C or externally when rain is imminent. Apply one coat for internal applications and two coats for external applications.

Touch dry in 1 – 2 hours. Recoatable after 4 – 6 hours.

Clean equipment immediately after use with warm soapy water and rinse thoroughly.

Precautions:

- Ensure good ventilation during application and drying.
- Avoid contact with skin and eyes.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- After contact with skin, wash immediately with plenty of soap and water or a recognised skin cleaner.
- Keep out of the reach of children.
- Safety data sheet available for professional user on request.

ENVIROGRAF HOUSE, BARFRESTONE, NR. DOVER, KENT, CT15 7JG, TEL: 01304 842555, FAX: 01304 842666

APPLICATION DATA SHEET

ENVIROGRAF®

AP042- HW Ultimate White-11-2018

Product Number: 42

HW Ultimate White

Description:

HW Ultimate white is a premium quality satin sheen finish for the use over HW01 that is suitable for interior and exterior use on wood. It provides a low odour, high opacity finish that is quick drying and non-yellowing.

Preparation:

Apply 1 coat of HW Ultimate White at 10-12m² per litre for internal use and apply 2 coats for external use.
Avoid the inhalation of dust, wear a suitable face mask if dry sanding. Treat knots with Knotting Solution and prime exposed wood. Special precautions should be taken during surface preparation of pre-1960's paint surfaces over wood as they may contain harmful lead. For further advice contact Technical on 01304 842555

Application:

Stir well before use and apply by brush or roller. Apply liberally and evenly for a smooth finish. Two coats **must** be used for external use.
Do not apply in temperatures below 10°C or in damp conditions.

Cleaning:

Remove as much paint as possible from application equipment before cleaning. Replace lid firmly. Clean equipment immediately after use with warm soapy water and rinse thoroughly. Some local authorities have special facilities for the disposal of waste coatings. Do not empty product into drains or watercourses.

Precautions:

- Ensure good ventilation during application and drying.
- Avoid contact with skin and eyes.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- After contact with skin, wash immediately with plenty of soap and water or a recognised skin cleaner.
- Keep out of the reach of children.
- Safety data sheet available for professional user on request.

Relevant Data:

Volume Solid	35%
Coverage	Approximately 12m² per litre depending on the nature and porosity of the surface.
Film Thickness	Wet: 80 μ m, Dry: 28 μ m.
Drying Time	Touch dry in 1–2 hours. Re-coatable after 4 hours.
Thinner	Clean water.
Sizes	1 Litre**, 2.5 Litre, 5 Litre.

VOC Content:

Medium VOC content 8-24.99%

VOC's (Volatile Organic Compounds) contribute to atmospheric pollution.

EU limit value for this product (Cat A/d): 130g/l (2010).
This product contains max 130g/l VOC.

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Scan the QR code to find out the validity of the certificate.

CERTIFICATE OF CONSTANCY OF PERFORMANCE

1220-CPR-2370

In compliance with Regulation (EU) 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

ES/VFR/W
92 ES/VFR/W
92 Q/VFR/W
42 HW01
EP/CP

Fire retardant products

Placed on the market under the name of **INTUMESCENT SYSTEMS LTD**

Envirograf House
Barfrestone
Dover CT15 7JG, UK

And produced in the manufactured plant **Factory plants according to annex N of ETA 23/0388**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in the

ETA 23/0388 issued on 17.07.2023
and
EAD 350865-00-1106,

under system 1 for the performances set out in the ETA are applied and that the factory production control conducted by the manufacturer is assessed to ensure the **constancy of performance of the construction product.**

This certificate was first issued on **10.11.2023** and will remain valid as long as neither the ETA, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the ITeC.

Ferran Bermejo Nualart
Technical Director

CE
Notified Body 1220

Blockchain technology has been applied in this certificate. To verify its authenticity and traceability, check the certificate on the ITeC website: www.itec.es