

TECHNICAL DATA SHEET

**ENVIROGRAF®**

TD042-HW02N-08-2018

Product Number: 42**HW02N****Description:**

Clear intumescent coating for all types of timber and timber related products.

The HW02N system offers a clear, fire proof coating, for upgrading new and already coated timber and wood related surfaces. HW02N is a water based product and can be used for internal and external use

Physical Data:

Type:	Water based fire protection product.
Colour:	Clear
Gloss:	N/A
Viscosity:	4 - 7 poise
Specific Gravity:	1.12 – 1.18

Recommendations for Use:

Recommended spreading rate:	8m ² /litre
Application methods:	Brush, roller or spray
Dry to touch:	1-2 hours. Varies with temperature, humidity, ventilation and film thickness.
Conditions during application:	Temperature of air and substrate must be above 5 °C and moisture content of wood substrate must be below 12% / 14%

Miscellaneous:

Size of containers:	Available in 1, 2½, 5 and 20 litres
Remarks:	Frost-free freight and storage. STIR WELL before use
Shelf Life:	6 months in unopened original packaging (Stored between 5-30 °C)

Directions for Use: (see Application Data Sheet for full instructions)

Ensure that the surface is dry, clean and free from dust before application.

If coating over existing paint or varnish apply Envirograf Product 42 (HWAP) adhesion primer.

Stir thoroughly before and during use. Apply by brush roller or spray, two coats are required to satisfy the requirements of BS476 Parts 6 & 7, Class 0 & Class 1(1987) spread of flame, and Classification B/S1/d0 of European Standard EN13501 Parts EN13823 (2002) single burn test (SBI) and EN 11925-2 (2002) ignitability.

The coverage of the first coat may vary according to the type and density of timber.

Apply the first coat and allow 1-2 hours to dry. Please ensure that the first coat is dry before applying the next coat.

Apply the second coat and allow 1-2 hours to dry.

Apply Envirograf top coat – see price list for available top coats.

Tested to BS476: Part 6 & 7, Class 0 & 1, BS 476: Part 20/22: 1987, 20 & 60 minutes protection, UK Building Regulations, EU EN BSI Test to A1-B/S1/d0 of European Standards, EN13505, EN13823:2002 Single burn and SBI EN11925:2 2002 Ignitability, also to EU EN 1364-1:1999, giving 66 minutes fire protection/integrity/insulation/stability. Tested to EN13501:2 (K₁ 10 or K₂ 10).

APPLICATION DATA SHEET



ENVIROGRAF®

AP042-HW02N-08-2018

Product Number: 42

HW02/N

FEATURES

The HW02N system offers a clear, fire proof coating, for upgrading new and already coated timber and wood related surfaces.

- HW02N is a water based product and can be used for internal and external use
- All tools can be cleaned with cold water

WARNING: HW02N needs to be upturned for 4 minutes. In cold weather stand the container in hot water and stir it well. When applying HW02N ensure the area is warm and dry, **NOT COLD & DAMP**.

The properties of this product cannot be guaranteed unless storage and application instructions are adhered to, Envirograf® strongly advise that you apply the product over a small area to ensure that there is no adverse reaction to the substrate to be processed.

The application to the door is as follows; in most cases it is the room side only of the door that needs treating. For both sides of the door it is a door that separates a corridor or is at the top of a staircase.

APPLICATION:

Note: It is important to ensure the moisture content of the wood substrate is below 12% / 14% before application and the wood should be kept in a thoroughly dry area.

Wash the door down in the normal way and ensure it is dry before applying Envirograf® coatings.

- A) Apply the HW Adhesion Primer (HWAP) first. Just a thin coat and ensure it is completely dry and **clear** before applying the first coat of HW02N.
- B) When the primer is dry and **CLEAR** apply 1 coat of the clear Intumescent coating. Again ensure it is **DRY** and **CLEAR** before proceeding. If you have the intumescent coat in joints of beading where it takes time to dry, place a heat gun, fan heater, or hair dryer over the area or any area that hasn't dried clear **WHILE THE HW02N IS STILL WET**.
- C) When all clear, apply second coat and follow as B) but use fan heater or hair dryer to dry and clear the coating.
- D) You are now ready to apply the top coat which must be applied when the second coat of HW02N is dry. **IT MUST NEVER BE LEFT OVERNIGHT WITHOUT APPLYING THE TOP COAT**.
- E) Once D) is dry, you can wax or French polish.

Apply 2 coats at 8m²/litre per coat to give 30 minutes on 9mm softwood and 60 minutes on 14mm softwood. Anything below these sizes, then apply 3 coats at 8m²/litre per coat. It can be applied by brush or spray. If spraying add up to 10% water. The contents must be thoroughly mixed before use. Use a 2.5 mm to 3 mm nozzle.

For application to new wood – ensure that the area is dust free. Should you wish to stain the wood first, then we suggest using Sikkens Water-Based Stain first. **HWAP MUST BE APPLIED TO CEDAR.**

HW02N must be coated over with a top protective coating. Apply 1 top coat for internal use and 2 coats for external use.

Cont.

TOP COATS FOR HW02N

Please refer to price list for available topcoats

TOOLS AND STORAGE

Water-based products: leave brush in cold soapy water then clean with brush cleaner.

White spirit-based products: clean with white spirit or a brush cleaner.

Store the product in temperatures between 5°C and 30°C. Do not apply the product in temperatures less than 5°C. Do not allow containers to stand on the floor.

Always check that the Product is within its shelf life. If in doubt contact your supplier.

Tested to BS476: Part 6 & 7, Class 0 & 1, BS 476: Part 20/22: 1987, 20 & 60 minutes protection, UK Building Regulations, EU EN BSI Test to A1-B/S1/d0 of European Standards, EN13505, EN13823:202 Single burn and SBI EN11925:2 2002 Ignitability, also to EU EN 1364-1:1999, giving 66 minutes fire protection/integrity/insulation/stability. Tested to EN13501:2 (K₁ 10 or K₂ 10).

COSHH DATA SHEET



ENVIROGRAF®

HS042-HW02N-08-2018

Product Number: 42

HW02/N

The HW System (Product 42) offers a Clear coating designed to upgrade new and existing timber substrates, offering up to 30 or 60 minutes fire protection meeting both UK National and European Fire Regulations.

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

- (Appendix 62) HW02/N

*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 62
HW02N

28th January 2016. Issue 3

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME:	HW02N
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

Hazard Symbol	None.
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 systems with non-hazardous intumescent and FR additives.
----------------------------------	---

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	Cloudy – dries clear.	Partition coefficient (n-octanol/water)	Not applicable
Form	Clear, varnish like.		
Odour	Low odour .	Other data	
pH as supplied	5.5 – 8.5		
Boiling point/range	Not determined.		
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	1.02 to 1.21 g/cm ³		
Solubility:			
Water solubility	Miscible.		

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.
Risk phrases	None.
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.
R-Phrase from section 2	

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.
