



Product Number: 42

HW02N

Description:

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

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

WARNING: On a rare occasion the coating may turn slightly yellow. Apply to a sample area first, if it turns yellow then HWAP (Primer) must be used. When applying HW02N ensure the area is warm and dry NOT COLD & DAMP.

APPLICATION

Apply one coat of Envirograf® HWAP/WB clear Adhesion Primer at 10-12 m² per litre before applying HW02N, when the primer is thoroughly dry apply HW02N.

HW02N is a clear Intumescent Coating with a slightly cloudy appearance but dries clear in about 1-2 hours. Once HW02N has been applied, **do not** attempt to re-work by over brushing this will tear the coating. If it is absolutely necessary to re-work then dip the tip of brush in warm water first and lightly brush over. If using HW02N for the first time, it is strongly advised that you practice applying the product over a small area to get a feel for the amount of application needed. When happy with the finish on the test area, then proceed with the project. Ensure that the first coat is completely clear before applying the next coat. Apply 2 coats at 8 m² per litre, per coat to give 30 minutes on 9 mm softwood and 60 minutes on 14 mm softwood. Anything below these sizes, then apply 3 coats at 8 m² per litre, per coat. Can be applied by roller, brush or spray. If spraying add up to 10% water. The contents must be thoroughly mixed before use. Use a 2.5mm to 3mm 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 Stains first. HWAP PRIMER MUST BE APPLIED ON CEDAR

Shelf life for the HW02N is 6 months from batch date.

HW02N must be over coated with a Top Protective Coating apply 1 top coat for internal use and 2 coats for external use.

(For available top coats please refer to price lists)

TOOLS & STORAGE

Water-Based Products – wash with warm water.

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.

Tested to BS476: Part 6 & 7, Class 0 & 1, BS476: Part 20/22: 1987, 30 & 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 and stability.

APPLICATION DATA SHEET



ENVIROGRAF®

AP042-HW02/N-07-2019

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 hot water

WARNING: On a rare occasion the coating may turn slightly yellow. Apply to a sample area first, if it turns yellow then HWAP (Primer) must be used. When applying HW02N ensure then 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, ceiling or wall 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 down in the normal way and ensure surface is dry before applying Envirograf® coatings.

- A) Apply the HW Adhesion Primer (HWAP) first if applying to previously treated or coated timber. Primer is not required if applying to new timber. 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 HW02 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. **IT MUST NEVER BE LEFT OVERNIGHT WITHOUT APPLYING THE TOP COAT**.
- D) You are now ready to apply the top coat which must be applied when the second coat of HW02N is dry.
- 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 Sikksens Water-Based Stain first. **HWAP MUST BE APPLIED TO CEDAR.**

If HW02/N is being used externally 2 coats of HW Superb must be applied at 8m² per litre per coat

SHELF LIFE:

The shelf life is 6 months from batch date

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).

SAFETY DATA SHEET



ENVIROGRAF®

HS042-HW02/N-09-2019

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 18) 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 18
HW02N

11th September 2019 Issue 6

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

Health effects: Main hazard:



Signal Word

Warning

Contains 1,2-benzisothiazol-3(2H)-one and 2-methylisothiazol-3(2h)-one
MAY PRODUCE AN ALLERGIC REACTION

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization Aqueous dispersion of a polymer with non-hazardous fire retardant and intumescent additives.

Chemical Name	CAS No.	EINECS Number	%	Classification
1,2-benzisothiazol-3(2H)-one	2634-33-5		< 0.05	H317 May cause an allergic reaction
2-methylisothiazol-3(2H)-one	2682-20-4		< 0.0015	H317 May cause an allergic reaction

4. FIRST-AID MEASURES

Skin contact: Remove contaminated clothing and wash contaminated skin thoroughly with water. Obtain medical attention if symptoms develop.

Eye contact: Wash immediately with copious amounts of water. Seek medical attention if irritation persists.

Inhalation: Remove the casualty to fresh air. Obtain medical attention if difficulties persist.

Ingestion: If ingested in large amounts then seek medical attention – show the physician this data sheet.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Select extinguishing agent appropriate for other materials involved.

Extinguishing media which must not be used for safety reasons: None known

Special exposure hazards: None known.

Special protective equipment for fire-fighters: Wear appropriate protective clothing and suitable breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear appropriate protective clothing and ensure standard good working industrial practice.

Environmental precautions: Try to prevent the material entering drains or watercourses. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation. Dilute as much as possible with water and notify authorities immediately.

Spillages: Contain and absorb using earth, sand, cloth or other inert absorbent material.

7. HANDLING AND STORAGE

Handling precautions: Wear appropriate protective clothing. Adequate ventilation should be provided if there is risk of mist or aerosol formation.

Storage conditions: Store in closed containers between + 5°C and + 30°C in dry conditions. Avoid extremes of temperature. Protect from freezing. Normal ventilation is adequate

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Standards

Personal protection equipment:

Respiratory protection: Not normally required, use in case of insufficient exhaust ventilation or prolonged exposure.

Hand protection: Wear impermeable nitrile or rubber gloves.

Eye protection: Wear safety goggles.

Skin and body protection Wear suitable overalls. Wash off any splashes immediately. No eating drinking or smoking in the work place. Practice good personal hygiene.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour:	White (dries clear)
Form:	Liquid.
Odour:	Mild.
pH as supplied:	8-9
Boiling point/range:	~ 100°C.
Freezing point/range:	~ 0°C.
Flash point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Autoignition temperature:	Not applicable.
Explosive properties:	Not applicable.
Vapour pressure:	Not applicable.
Bulk density:	1.06 to 1.12g/cm ³
Solubility:	
Water solubility:	Miscible.
Partition coefficient: (n-octanol/water)	Not determined.
Other data:	-

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Materials and Conditions to avoid: No hazardous reactions when stored and handled to prescribed instructions.

Hazardous decomposition products: No decomposition if stored and applied as directed. Thermal decomposition may generate oxides of carbon and phosphorus.

11. TOXICOLOGICAL INFORMATION

Mono-propylene glycol methyl ether

Acute Toxicity:

Reproduction toxicity:

12. ECOLOGICAL INFORMATION

Do not allow product to enter soil, waterways or waste water.

Information on components:

13. DISPOSAL CONSIDERATIONS

Product: Recommended disposal of this product is in accordance with local regulations at approved sites. Incineration is suitable.

Uncleaned packaging: Contaminated packaging should be emptied as far as possible and after cleansing may be reused.

Packaging that cannot be cleaned should be disposed of as product waste.

14. TRANSPORT INFORMATION

UN Class: This product is not classified as dangerous goods under the United Nations Transport Recommendations.

UN Packing group No special requirements.

ADR Not regulated for transport.

RID Not regulated for transport.

IMDG Not regulated for transport.

IATA Not regulated for transport.

Further information: Dispatch by post permitted.

15. REGULATORY INFORMATION

Labelling / Supply classification: No classification required according to directive 67/548/EEC, Directive 1999/45/EC and further amendments and adaptations.

National regulations: Water Hazard Class (Ger.): 2 (according to VwVwS, 17.05.199

Safety phrases S2 – Keep out of the reach of children

S23 – Do not breathe vapour/spray.

16. OTHER INFORMATION

Recommended use Coating with fire retardant / intumescent properties.

Further information Consult technical data sheet.

H-Phrase from section 3 H317 May cause an allergic reaction

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.