

Product name	HW02 Fire protective varnish
Product Code	HW02
Revision date	2018-12-04
Revision number	-
Document ref	TDS HW02

#### **PRODUCT OVERVIEW**

The HW02E System offers a clear, water based fire protective coating. Tested on new timber, and already coated wooden surfaces.

#### HW02 has the following advantages:

- Tested and classified to B-s1,d0, K210, EI60
- Water based
- Tested with and without a primer
- Fast drying, easy to work with, low smell
- Tested for Indoor Air Emissions

#### TEST DATA

HW02 is classified to B-s1,d0, according to EU Standard EN13501–1. It is tested in accordance with EN13823 SBI and EN11925-2 SFI. It is classified to  $K_210$  according to EU Standard EN13501-2:2007 + A1 2009. Tested to EN14135:2004. It is classified to EI60 according to EN 13501-2. tested to EN1364-1. Produced in the UK by Intumescent Systems Ltd. Tested for Indoor Air Emissions.

Product	Fire classification	number of coats /µ WFT	Coverage/coat m2/ litre	Total coverage m2/litre	Test document reference
HW02	B-s1,d0	1 x 125 µ HW02	8	8	2008-CVB-R0678
HW02	K <sub>2</sub> 10	2 x 125 µ HW02	8	4	DBI PCA10037
HW02	EI60, EW60	2 x 125 µ HW02	8	4	2006-Efectis-R0833(rev 1)

## PLEASE RESPECT THE PRODUCT

Type of product: Water based fire protective varnish

Storage: from 5°C to 35°C, protect from frost

Shelf life: 6 months from production date, 3 months once additive is mixed in

Application: Brush, roller or spray. Important: first coat must be fully dry and clear before second coat is applied.

HW02 needs to be covered with a good quality top coat. Depending on substrate, HW02 could also need a primer. For hardwood and for cedar, we recommend to always use a primer. HW02 can be used both indoors and outdoors, the durability is depending on the top coat. As it is a hygroscopic product, HW02 can absorb moistre from the air and loose clarity if the top coat is damaged or worn. PLEASE SEE SEPARATE APPLICATION DOCUMENT FOR MORE INFO.

Note that HW02 is a specialist coating. Always do a small test patch in an inconspicous place to ensure good adhesion and correct finish of the applied product. It can be hard to acheive a completely clear result on dark surfaces.





Passive fire protection for trade

#### PREPARATION

HW02 offers a clear, fire proof coating, for upgrading new and already coated timber and wood related surfaces. Clean the substrate, make sure it is dry and free from dust, grease, cleaning agents etc. HW02 can be applied straight on to untreated softwood, particle board or OSB-board. On other types of wood we recommend a primer, as substrate can affect adherence and look. For example Cedar demands a primer. Maximum moisture content of substrate: 14%. Minimum ambient temperature: 5°C.

Important: HW02 is a specialist coating. Even though it is easy to work with and can be applied by anyone, it is important to follow the instructions on the tin or in this application data sheet, as the properties of HW02 cannot be guaranteed unless storage and application instructions are followed. Trials of every batch must be carried out in small scale prior to full application, as performance varies according to substrate structure, humidity and temperature.

### APPLICATION INSTRUCTIONS

HW02 needs to be upturned for 4 minutes, then add 5% water and stir thoroughly for five minutes. In cold weather HW02 can thicken: stand the container in hot water and stir it well – it will then go to a paint consistency. When applying HW02 ensure then area is warm and dry, as cold and damp conditions will affect the coating. HW02 is delivered with an additive. When you are ready to use HW02 add all of the additive to the contents of the tin and mix thoroughly before use. Once the additive is mixed in, the shelf liffe of HW02 is 3 months.

- If the substrate is already painted, or if the wood demands it, use HW Adhesion Primer (HWAP) first. Apply a thin • coat and ensure it is completely dry and clear before applying the first coat of HW02.
- Apply first coat of HW02, make sure it is dry and clear beofre proceeding. If applying to joints of beading where it takes time to dry, you can use a heat gun, fan heater, or hair dryer over any area that hasn't dried clear WHILE THE HW02 IS STILL WET..
- When first coat is clear, apply second coat in the same manner, use fan heater or hair dryer to dry and clear the coating.
- Apply the top coat when the second coat of HW02E is dry. HW02 MUST NEVER BE LEFT OVERNIGHT WITHOUT TOP COAT. Once top coat is dry, you can wax or French polish.

Product	Fire classification	number of coats /µ WFT	Coverage/coat m2/ litre	Total coverage m2/litre
HW02	B-s1,d0	1 x 125 μ HW02	8	8
HW02	K <sub>2</sub> 10	2 x 125 μ HW02	8	4
HW02	El60, EW60	2 x 125 μ HW02	8	4

Application tools: rush, roller or spray equipment (2.5 to 3 mm nozzle). Thin with up to 10% water if applied by spray.

### **CLEAN UP**

Soak the tools with cold, soapy water. For best result, clean brushes with a little brush cleaner, then rinse with water. Close the tin carefully and use before the expiry date.

## **AFTER CARE**

Walls painted with HW02 can be cleaned in accordance with what the top coat allows.

The protection provided by the HW paints will last the lifetime of the substrate, providing there is no damage to the coating. The topcoat needs to be maintained, as you would with general maintenance, with cyclical re-application as stated by the topcoat supplier.





SAFETY DATA SHEET

## HW02 Fire protective varnish

conforming to EC no. 1272/200	
Revision date	2019-09-12
Revision number	2

### 01 - IDENTIFICATION OF SUBSTANCE

#### 1.1. Product identifier

Trade name : HW02 Fire protective varnish

Version number: -

#### 1.2. Relevant identified uses of the mixture and uses adviced against

- 1.2.1. Relevant identified uses
  - Uses of the product: Fire protective water bourne varnish for wood and wood related substrates
- 1.2.2. Uses adviced against: Not relevant
- 1.3 Supplier of data sheet:

Scandinavian Trading Ltd Unit 2, Glen Court, Canada Road, Byfleet, KT14 7JL, UK Tel: +44 (0)1932 354293 www.scandinaviantrading.co.uk

1.4 Emergency telephone number: Follow local rules. Emergency number in Europe: 112

### 02 - HAZARDS IDENTIFICATION

- 2.1. Classification of the substance or mixture:
- 2.2. Label elements:

2.3. Other hazards:

Not hazardous if used as intended

### 03 - COMPOSITION/ INFORMATION ON INGREDIENTS

3.1/2. Substance/Mixture:

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

EUH208: Contains 1,2-Benzisothiazol-3(2H)-one and

2-methylisothiazol-3(2H)-one. May cause an allergic reaction.

Chemical name	CAS No.	%	Hazard phrases
1,2-Benzisothiazol-3(2H)-one	2634-33-5	< 0.05%	H317
2-methylisothiazol-3(2H)-one	2682-20-4	< 0.0015%	H317

#### 3.3. Additional information:



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#### 04 - FIRST AID MEASURES

#### 4.1. Description of first aid measures.

	Remove the casualty to fresh air. Obtain medical attention if difficulties persist. 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.
ingestion:	If ingested in large amounts then seek medical attention – show the physician this data sheet
4.2. Most important symptoms and effects, both acute and delayed.	-

4.3. Indication of any immediate medical attention and special treatment needed.

#### **05 - FIREFIGHTING MEASURES**

5.1 Extinguishing media.	Select extinguishing agent appropriate for other materials involved.		
Unsuitable extinguishing media:	None known.		

- 5.2 Special hazards arising from None known. the substance or mixture:
- **5.3 Advice for firefighters:** Wear appropriate protective clothing and suitable breathing apparatus.

## **06 - ACCIDENTAL RELEASE MEASURES**

- 6.1. Personal precautions, protective equipment and emergency procedures:
  6.2. Environmental precautions:
  Wear appropriate protective clothing and ensure standard good working industrial practice.
  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
- **6.3. Methods and material for** containment and cleaning up: Contain and absorb using earth, sand, cloth or other inert absorbent material.

immediately.

## 07 - PRECAUTIONS FOR SAFE HANDLING

7.1 Precautions for safe handling:Wear appropriate protective clothing. Adequate ventilation should be provided<br/>if there is risk of mist or aerosol formation.7.2. Conditions for safe storage,<br/>including any incompatibilites:Store in closed containers between + 5°C and + 30°C in dry conditions. Avoid<br/>extremes of temperature. Protect from freezing. Normal ventilation is adequate7.3. Specific end uses:Product is intended for use as described in section 1.2





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### SAFETY DATA SHEET

HW02 Fire protective varnish

08 - EXPOSURE CONTROLS /PERSONAL PROTECTIO	Ν
8.1. Control parameters	-
Occupational exposure limits TWA (Time Weighted Average):	-
DNEL / PNEC:	-
8.2 Exposure controls:	
Appropriate technical measures:	Provide adequate ventilation, especially if applied by spraying.
General information / hygiene measures:	Wash hands if needed after use.
Measures to avoid environmental exposure:	Avoid spills into local waterways.
Personal protective equipment:	
Respiration protection:	Not normally required, use in case of insufficient exhaust ventilation or prolonged exposure.
Hand protection:	Wear impermeable nitrile or rubber gloves.
Body protection:	Wear suitable overalls. Wash off any splashes immediately.
Eye Protection:	Wear safety goggles.
09 - PHYSICAL AND	

OFFICIENTICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

Appearance:	Varnish like liquid	Density:	1.06 - 1.12 g/cm3
Colour:	Cloudy - dries clear	Freezing point:	ca 100°C
Odour:	Low odour	Evaporation rate:	-
pH (as supplied):	7-9	Auto-ignition temeperature:	not applicable
Viscosity:	-	Explosive limits	not applicable
Flash point:	not applicable	Solubility in water:	Miscible
Boiling point:	ca 100°C	Partition coefficient: (N-octanol/water)	not applicable
Vapour pressure:	not applicable		

9.2 Other information:

## 10 - STABILITY AND REACTIVITY

10.1. Reactivity:	-
10.2 Chemical stability:	Stable under normal conditions.
10.3. Possibility of hazardous reactions:	No hazardous reactions when stored and handled to prescribed instructions.
10.4 Conditions to avoid:	Avoid extremes of temperature especially frost and freezing conditions.
10.5 Incompatible materials:	-
10.6 Hazardous decomposition products:	No decomposition if stored and applied as directed. Thermal decomposition may generate oxides of carbon and phosphorus



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#### **11 - TOXICOLOGICAL INFORMATION**

11.1. Information on toxicological effects

#### 12 - ECOLOGICAL INFORMATION

#### 12.1 Toxicity

- 12.2 Persistence and degradability:
- 12.3 Bioaccumulative potential:
- 12.4 Mobility in soil:
- 12.5 Result of PBT and vPvB assesment:
- 12.6 Other adverse effects:

#### 13 - DISPOSAL CONSIDERATIONS 13.1 Waste tratment methods: 08 01 11\* waste paint and varnish containing organic solvents or other hazardous substances. The EAL-code is for guidance only. Always check the waste disposal code for the applied status of the product in this Safety Data Sheet. Final EAL-code is decided by the use of the product. Must be disposed of in accordance with local and national regulations. Contaminated packing: 15 01 04 metallic packaging. Empty tins can, after cleaning, be recycled in accorcance with local regulations

#### **14 - TRANSPORT INFORMATION**

#### 14.1 UN number This product is not classified as dangerous goods under the United Nations Transport Recommendations. 14.2 UN proper shipping name 14.3 Transport hazard class(es) Not regulated for transport. 14.4 Packing group Not regulated for transport. 14.5 Environmental hazards - MP: Not regulated for transport. 14.6 Special precautions for user: Not regulated for transport. 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Futher information: Dispatch by post permitted.

### **15 - REGULATORY INFORMATION**

15.1. Safety, health and environmental regulations/ legislation specific for the substance of mixture

No classification required according to directive 67/548/EEC, Directive 1999/45/EC and further amendments and adaptations. Water Hazard Class (Ger.): 2 (according to VwVwS, 17.05.1999

**15.2 Chemical Safety Assessment:** 



SAFETY DATA SHEET

HW02 Fire protective varnish

## **16 - OTHER INFORMATION**

Recommended use:	Decorative coating with fire retardant properties.
Further information:	Consult technical data sheet. P102 - Keep out of reach of children. P103 - Read label before use P260 - Avoid breathing dust/fumes/gas/mist/vapours/spray.
Hazard statements from heading 3:	H317 May cause an allergic skin reaction
Additional information:	The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the EU regulations. The product should not be used for purposes other than those shown in section 1 without first referring to Scnadianvaian Trading Ltd and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. This information contained in the safety data sheet is based on present knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

