

Nordic QVFR Clear Flame retardant varnish

Product name	Nordic QVFR Clear
Product Code	Nordic QVFR Clear 1 / 2
Revision date	2020-07-13
Revision number	-
Document ref	TDS NORDIC QVFR C

PRDUCT OVERVIEW

Nordic QVFR Clear is a clear flame retardant varnish for protection of wood based substrates. Nordic QVFR Clear is water based. It is developed for indoor use and does not need a top coat.

Nordic QVFR Clear has the following advantages:

- Tested and classified to B-s1,d0
- Water based
- Has an integrated top coat
- Tested with and without a primer
- Fast drying, easy to work with, low smell
- Tested for Indoor Air Emissions
- Second coat in matt, satin or gloss finish

TEST DATA

Nordic QVFR Clear is classified to B-s1,d0, according to EU Standard EN13501-1:2007 + A1:2009. It is tested in accordance with EN13823:2010 SBI and EN11925-2:2010 SFI.

Tested for Indoor Air Emissions.

Product	Fire classification	number of coats / μ WFT	Coverage/coat m ² / litre
Nordic QVFR Clear	B-s1,d0	1 x 100 μ Nordic QVFR 1	10
		1 x 100 μ Nordic QVFR 2	10

NOTES

Type of product: Water based flame retardant varnish

Storage: from 5°C to 30°C

Shelf life: 6 months from production date

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

Nordic QVFR Clear is a two coat system and must be applied as follows: Nordic QVFR Clear 1, followed by Nordic QVFR Clear 2. Nordic QVFR Clear has a top coat integrated in the second coat.

Nordic QVFR Clear is designed for indoor use. It can be ordered in a matt, satin or gloss finish

Note that Nordic QVFR is a specialist coating. Always do a small scale test to ensure the adhesion and look of the applied product. It can be hard to acheive a completely clear result on dark surfaces.



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PREPARATION

Clean the substrate, make sure it is dry and free from dust, grease, cleaning agents etc. Nordic QVFR Clear can be applied straight on to untreated softwood or OSB-board, on other types of wood we recommend a primer, as substrate can affect adherence and look. Ensure that the substrate is fully dry before applying Nordic QVFR Clear.

APPLICATION INSTRUCTIONS

Stir/mix Nordic QVFR Clear vigorously before and during use. Nordic QVFR Clear will look milky in the tin and on application, but will dry clear. If applying to previously painted surface, ensure that flaking paint or varnish is removed and apply a primer.

Nordic QVFR Clear can be applied by brush, roller or spray. If spraying, use a nozzle size 0.013-0.019". If needed, thin with up to 10% warm water and stir well.

To achieve fire rating B-s1,d0, Nordic QVFR Clear is to be applied in 2 coats of 100µ wet film thickness (WFT), 10 m² per litre per coat. Apply Nordic QVFR Clear 1 as first coat, followed by Nordic QVFR Clear 2 as second coat.

Ensure that the first coat is fully dry and clear before second coat is applied.

For best result, keep the paint at a temperature of 20-25°C at application. Put the paint tin in a bucket of warm water if cold in the room.

Nordic QVFR Clear is for use indoors only.

Application tools:	Brush, roller or spray equipment (0.013-0.019" nozzle)
Thin with:	Water (up to 10% if application by spray)
Drying time:	Touch dry after 1-2 hours (dependent on moisture levels in the room)
Time before second coat:	Minimum 2 hours. Ensure that Nordic QVFR Clear 1 is completely dry and clear before applying Nordic QVFR 2.
Protective equipment:	protective clothing
Clean up:	soap and water and/or brush cleaner
Storage:	5-30°C in indoor conditions, ensure tin is well sealed.
Shelf life:	6 months from production date.

Note: The coverage on the first coat could vary according to type of timber treated. 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.

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 Nordic QVFR can be cleaned with a well wrung damp cloth.

Small scuffs, scratches, or general wear over time does not affect fire performance. Major damages should be addressed with a new coat of Nordic QVFR 2, 100 µ WFT. If redecorating: ensure that the surface is clean and free from dust. Then apply one coat Nordic QVFR 2, 100 µ WFT.



Nordic QVFR Clear

Flame retardant varnish B-s1,d0

conforming to EC no. 1272/200

Revision date 2020-07-13

Revision number 1

01 - IDENTIFICATION OF SUBSTANCE

1.1. Product identifier

Trade name : Nordic QVFR Clear (1+2)**Version number:** -

1.2. Relevant identified uses of the mixture and uses advised against

1.2.1. Relevant identified uses

Uses of the product: Flame retardant varnish for wood and wood related substrates**1.2.2. Uses advised 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:**

EUH208: Contains 1,2-Benzisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one. May cause an allergic reaction.

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.

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.

- inhalation :** Remove the casualty to fresh air. Obtain medical attention if difficulties persist.
- 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.
- 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.

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

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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 the substance or mixture:

None known.

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:

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

6.2. 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.

6.3. Methods and material for containment and cleaning up:

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

07 - PRECAUTIONS FOR SAFE HANDLING

7.1 Precautions for safe handling:

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

7.2. Conditions for safe storage, including any incompatibilities:

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

7.3. Specific end uses:

Product is intended for use as described in section 1.2



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08 - EXPOSURE CONTROLS /PERSONAL PROTECTION

- 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 CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Varnish like liquid	Density:	1.06 - 1.12 g/cm ³
Colour:	Cloudy - dries clear	Freezing point:	ca 0°C
Odour:	Low odour	Evaporation rate:	-
pH (as supplied):	7-9	Auto-ignition temperature:	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 assessment: -

12.6 Other adverse effects: -

13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment 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 accordance 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: -



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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 Scandinavian 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.