



HWS-112 Hard Wax Seal

Durable, single-component wood sealer for a natural look and two-time application



Colour	Availability			
	Quantity per pallet	444	60	22
	Size / Quantity	1 l	5 l	20 l
	Type of container	Tin canister	Tin bucket	Tin bucket
	Container code	85	05	20
	Art. no.			
clear	1826	■	■	■
special colours	1829	■	■	■

Application rate

First coat: 70 ml/m²
Second coat: 60 ml/m²



Range of use



- Furniture and interior finishing work
- Wooden floors and stairs
- Tables and worktops
- Interior finishing of ships
- For bath and sauna elements
- No removal of excess
- Bamboo components
- Cork floors
- Not for bleached wood
- For use by professionals

Property profile



- Quick-drying
- Resistant to abrasion and scratches
- Resistant to chemicals: DIN 68861, 1B
- Slip-resistant
- Natural look and feel
- Suitable for interior finishing of ships (IMO)
- ResistMat: with reduced tendency to become glossy, good transparency
- Fire behaviour according to DIN EN 13501-1: B-s1,d0 on suitable substrates

Characteristic data of the product

Binder	Alkyd resin
Density (20 °C)	Approx. 0.88 g/cm ³
Runout time s (20° C, DIN 4)	Approx. 22
Odour	Characteristic
Gloss level	Cloth matt
Product is free from	Formaldehyde, PCB, lindane, PCT, PCP, lead, halogenated hydrocarbons and butanone oxime

The values stated represent typical characteristic data of the product and are not to be understood as binding product specifications.

Test standards

DIN 68861, 1B Resistance to chemicals

Additional information

- [Sustainability Data Sheet](#)
- [Care of surfaces and floors treated with oil or hard wax sealants](#)



Preparation

■ Substrate requirements

The substrate must be clean, dry, free of dust, grease and loose substances, and prepared in the correct manner.

Wood moisture content: 8-12%

Final wood sanding no finer than P 180

■ Substrate preparation

Thoroughly remove any dirt, grease and non-adhering old coatings.

Wash off greasy or resin-rich woods/substrates with WV-891 or V-890. Use UN-894 indoors on the construction site. Ensure good ventilation for solvents.

If you wish to add colour, prime with Decorative Wax Stain or OB-008.

If applying a subsequent coating using a roller: intermediate drying time min. 24 hours.

When sealing old parquet flooring, end-grain wood parquet and installation patterns with the wood grain running in different directions, we recommend pre-treating with OB-008 clear and leaving to dry for at least 48 hours in order to ensure that the substrate is thoroughly saturated and absorbs the material evenly.

Directions



■ Conditions for use

Temperature of the material, air and substrate: from min. +15 °C to max. +25 °C.

Stir well, including during application or after a break in work.

For better wetting of the substrate and pores, we recommend applying the first coat as a slurry or with a roller.

Apply by spraying or with a roller.

Flow cup gun: nozzle: 1.6 - 1.8 mm; atomiser air pressure: max. 2 bar

Airless spraying: nozzle size: 0.23 - 0.28 mm, material pressure: 80 - 120 bar.

Airmix spraying: nozzle 0.23 - 0.28 mm, material pressure: 80 - 100 bar, atomiser air pressure: max. 1 bar.

After drying and intermediate sanding (P 240 - 320), apply a second coat of the product.

Observe the waiting times between coats.

When coating continuous surfaces, only use materials with the same batch number as slight differences in colour, gloss and texture may occur.

Seal opened containers well and use contents as soon as possible.

Tips on use



Check colour, adhesion and compatibility with the substrate by setting up a trial area.

For optimal chemical resistance on porous woods in areas subject to higher levels of stress, the first coat should be applied using a roller or brush to ensure that the pores are wetted and saturated.

Before coating technically modified woods and wood-based materials, apply the product to a trial surface and conduct a suitability test on the desired area of use.

For smoked oak and other exotic woods, Remmers Technical Service must be consulted prior to use and a trial area set up.

Owing to the high reactivity of the product, skin formation may occur. Please remove before stirring and sieve as a precaution.

Make sure the area is well ventilated when using indoors.

Dispose spray dust deposits regularly to avoid ignition of the spray dust.

Avoid ultra-fine material atomisation and excessive overspray.

Leave fresh spraying dust to dry before sweeping up.

The product itself is not self-igniting.

When sanding wooden surfaces that have been treated with the product, always wear respiratory protection (dust filter mask P2).

Risk of self-ignition (DGUV information brochure 209-046).

Must not be applied in the same workplace as NC-based lacquers or stains. Collect contaminated textiles (e.g. cleaning rags, work clothing, dust collection containers) in fire-resistant waste containers and dispose of them in a fire-safe manner (under water).

■ Drying

Dust-dry: after approx. 1 hour

Touch-dry: after approx. 3 hours

Can be overcoated by spraying: after approx. 6 hours

Can be overcoated using a roller: after approx. 14 hours

Full loading capacity: after approx. 7 days

Practice values at +20 °C and 65% relative humidity.

Low temperatures and high humidity delay drying.

Drying is dependent on the type of wood and the absorbency of the substrate.

■ Thinning

Ready to use

Notes

DIN EN 71-3 "Migration of certain elements":

This product complies with the limits for the migration of heavy metals to children's toys according to DIN EN 71-3 and thus fulfils one of several further requirements for the safety of children's toys according to the EU "Toy Directive" (2009/48/EC).

Oil-based products contain natural ingredients. Under the influence of UV light, exclusion of light (dark yellowing), heat or individual changes in the wood, these can lead to a change in the surface. Please refer to



the information sheet on general application instructions for oils and waxes. White, pastel and grey tones can lose their intensity within a short period of time. This happens depending on the type of wood used, substances contained in the wood, exposure to light and heat. If these changes are not desired, a stained and lightfast lacquered surface finish using a water-based, lightfast stain is recommended.

Use breathable materials when packing the coated wood building elements.

Dust and loose dirt on floors and stairs should be removed regularly using a soft broom or mop.

For maintenance (including partial maintenance on traffic areas subject to particular levels of wear), treat the cleaned surface with the product or with Hard Wax Oil in such a way that it blends in to produce a uniform finish.

For overhauls and top-ups, we recommend using Oiled Floor Care.

The maintenance and care kit can be used for top-ups and long-term preservation of surfaces.

Observe the "Care instructions for surfaces and floors treated with oil or hard wax sealers".

Please refer to the relevant test reports/certificates and the Technical Data Sheet for information on certified products and configurations.

For applications according to the Marine Equipment Directive, the maximum wet application rate is 140 g/m².

Tools / Cleaning



Short-pile (3-5 mm) velour or mohair roller, flow cup gun, airless/airmix spraying equipment, filler knife

Clean tools immediately after use with V 101 Thinner.

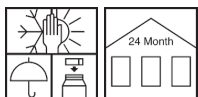
Ensure that any residue from cleaning is disposed of correctly.

Remmers tools

➤ **Patentdispenser (4747)**

➤ **Velour Roller (4442)**

Storage / Shelf life



If stored unopened in its original container in a cool, dry place and protected against frost, the product will keep for at least 24 months.

Safety data / Regulations

For further information on the safety aspects of transporting, storing and handling the product and on disposal and environmental matters, please see the current Safety Data Sheet.

Personal protective equipment

Respiratory protection with at least an A/P2 combination filter must be worn during spraying, together with safety goggles. Wear suitable protective gloves and clothing.

Disposal

Larger product residues must be disposed of in the original packaging in accordance with the applicable regulations. Do not pour liquid coating or residues down the drain, even when cleaning tools. Must not be disposed of with household waste. Completely empty packaging must be recycled.

VOC content as per the "Decopaint" Directive (2004/42/EC)

EU limit value for the product (cat A/i): max. 500 g/l (2010).

This product contains < 500 g/l VOC.

VOC	
Kat.	A/i
2010:	500g/l
max.:	500g/l

Please note that the data and information given above have been calculated as guidelines in the laboratory and from real-life experience and are therefore not binding as a basic principle.

This information is therefore of a general nature only and describes our products and how they are used and worked with. In this respect, it must be borne in mind that the varied and diverse nature of the

prevailing working conditions, materials used and construction sites encountered means that not every individual case can be covered. In this respect, we therefore recommend either conducting tests or liaising with us in the event of any doubt. Unless we have provided express written assurance of the products' specific suitability or characteristics in respect of a contractually stipulated intended use, any technical application-related advice or instruction will never

be binding, even though it is provided to the best of our knowledge. In all other respects, our general terms and conditions of sale and delivery shall apply.

When a new version of this Technical Data Sheet is published, it shall replace the previous version.