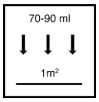
Aqua HWS-712 Hard Wax Seal [eco]

Water-based, hard-wearing 1K sealant based on renewable raw materials for two-time application

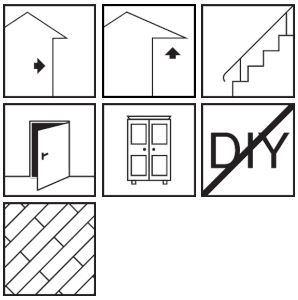
Colour	Availability			
	Quantity per pallet	672	96	22
	Size / Quantity	**0,75 l**	**5 l**	**20 l**
	Type of container	Tin bucket	Tin bucket	Tin bucket
	Container code	01	05	20
	Art. no.			
clear	5290	■	■	■
grain+	5291	■	■	■
natural effect	5292	■	■	■
special colours	5293	■	■	■

Application rate

Two coats at 70 - 90 ml/m² per coat

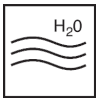


Range of use



- Interior wood
- Exterior wood not directly exposed to weather
- Furniture and interior finishing work
- Wooden floors and stairs
- An alternative to products with a high solvent content for wooden flooring as per TRGS 617
- Tables and worktops
- Primer: minimisation of swelling behaviour (opaque structures)
- Terrace furniture in sheltered outdoor areas
- Sustainable building suitable for building certifications DGnB, LEED, BNB
- Not for bleached wood
- "Natural look" colour only for light-coloured woods, such as oak, ash and spruce
- No removal of excess
- Not suitable for coating exterior floors (terraces, wooden decking etc.)
- For use by professionals

Property profile



- Very fast drying
- Resistant to abrasion and scratches
- Resistant to chemicals: DIN 68861, 1B
- Slip-resistant
- Water repellent
- Very low tendency to shine
- Natural look and feel
- Based on renewable raw materials: at least 80%
- A vegan product based on the information available to us
- VOC-free and low odour
- No creaking
- 2K-ready: increased resistance to chemicals, hand creams, scratches and abrasions by adding 2% Aqua VGA-485
- Fire behaviour according to DIN EN 13501-1: B-s1,d0 on suitable substrates
- Classified as non-spontaneously combustible according to EPH test report

Characteristic data of the product

Binder	Modified plant oils & copolymers based on renewable raw materials
Density (20 °C)	Approx. 1.03 g/cm³
Odour	Mild
Degree of gloss	Cloth matt
Product is free from	Formaldehyde, acetaldehyde, toluene, tetrachloroethylene, xylene, 1,2,4-trichlorobenzene, 1,4-dichlorobenzene, ethylbenzene, 2-butoxyethanol, styrene, PCB, lindane, PCT, PCP, cobalt and lead

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

Certificates

- **DIN EN 71-3 "Migration bestimmter Elemente"**
- **Rutschhemmend gm. DIN 51130:2014 "R10" mit Strukturmittel/ "R9" ohne Strukturmittel**
- **Emissionsprüfung nach AgBB-Schema und French VOC**
- **Klassifizierung des Brandverhaltens gm. DIN EN 13501-1 (B-s1, d0)**
- **Prüfbericht EPH zur Selbstentzündung**
- **Test Certificate EPH to self-ignition**

Additional information

- **Wasserbasierte Beschichtungssysteme im Treppenbau**
- **Pflege von geölten oder mit Hartwachssiegeln behandelten Flächen**

Possible system products

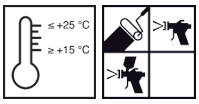
- **Aqua VGA-485 Cross-Linking Agent & Glass Lacquer Additive (3256)**
- **HSO-118 High Solid Oil [eco] (7708)**
- **Aqua PF-430 Pigment & Sealing Filler [iac] (3265)**
- **Aqua CL-445 Colour Opaque 4 in 1 (3796)**
- **OB-008 Oil Stain (2787)**
- **Aqua Beizen**
- **SM-820 Texturing Agent (1942)**

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%
Softwoods: raw wood longitudinal sanding with P 120
Hardwoods: raw wood longitudinal sanding with P 180
Ring-porous woods (e.g. oak, ash, walnut): additionally brush out pores with a bronze brush

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.
Use a stain for tinting if required.
When sealing wooden floors, we recommend pre-treatment with HSO-118 [eco] followed by a drying time of at least 48 hours to ensure saturation and uniform material absorption of the substrate.
Wood in outdoor areas not directly exposed to weathering: Observe BFS Leaflet No. 18 "Coatings on wood and wood-based materials in outdoor areas".

Directions



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

Stir well.
For better wetting of the substrate and pores, we recommend applying the first coat with a roller.

Roller application:
Clear only.
Apply even layer thicknesses, including in overlapping areas.
Application on small areas: microfibre roller, 5 mm pile height.
Application on large areas: microfibre roller, 8 mm pile height.

Spray application:
Flow cup gun: nozzle size: 1.0 - 1.6 mm, atomiser air pressure: 1.0 - 2.0 bar.
Airless spraying: nozzle size: 0.23 mm, material pressure: 60 - 80 bar.
Airmix spraying: nozzle size: 0.23 mm, material pressure: 50 - 70 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.
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.
Before coating technically modified woods and wood-based materials, apply the coating to a trial surface and conduct a suitability test on the desired area of use.
Prior to full application, please apply a test coat to a sample area under practical conditions using the desired system, then test or examine the surface properties.
This product is marketed as a "no creaking" product when used on staircases. This is only possible if the stairs have been constructed correctly and professionally (design, accuracy of fit, wood moisture content).
For smoked oak and other exotic woods, Remmers Technical Service must be consulted prior to use and a trial area set up.
Avoid excessive overspray.
It should be noted that the tests carried out by EPH could not take into account all possible scenarios that might occur in practice. For example, contact of objects and media contaminated with this product, such as rags or dust, with other highly flammable agents, such as dust containing cellulose nitrate or certain solvents, could lead to conditions that result in ignition.
The product should not be applied at the same work stand as NC-based varnishes or stains. Collect any textiles soiled with the product (e.g. cleaning rags, work clothing) in fire-resistant waste containers and dispose of properly.

- **Drying**
  Dust-dry: after approx. 30 minutes
  Touch-dry: after approx. 1.5 hours
  Overcoating: after approx. 3 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, add approx. 10% water if necessary

Notes

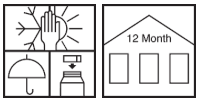
DIN EN 71-3 "Migration of certain elements":
This product complies with the limits for the migration of heavy metals to children's toys according to DIN EN 71-3 and thus fulfils one of several further requirements for the safety of children's toys according to the EU "Toy Directive" (2009/48/EC).
The variant "grain+" initially creates subtle emphasis of the grain. Over time, a warm colour tone generally intensifies.
Oil-based products contain natural ingredients. Under the influence of UV light, light exclusion (dark yellowing), heat or individual wood changes, these can lead to a change in the surface. This requires special surface care, please refer to the leaflet on general application instructions for oils and waxes. If these changes are not desired, a stained and lightfast lacquered surface design is recommended.
Use breathable materials when packing the coated wood building elements.
When applying over large surface areas in the commercial flooring sector, consult Remmers Technical Service in advance and create a trial area.
Assessment of sealed wooden floors according to DIN 18356 (permissible unevenness under grazing light incidence).
Dust and loose dirt on stairs should be removed regularly using a soft broom or mop.
For complete care and maintenance, we recommend the use of care products for oiled wooden surfaces.
Follow the instructions provided by the care product manufacturer.
Please refer to the relevant test reports/certificates and the Technical Data Sheet for information on certified products and configurations.

Tools / Cleaning

Sealant roller with microfibre cover approx. 5 - 8 mm pile height, flow cup gun, airless/airmix spraying equipment

Clean tools with water or Aqua RK-898 Cleaning Concentrate immediately after use.
Ensure that any residue from cleaning is disposed of correctly.

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 12 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 a particle filter P2 must be worn during spraying, together with protective goggles.
Wear suitable protective gloves and clothing.

Disposal

	Larger quantities of leftover product should be disposed of in the original containers in accordance with the applicable regulations. Completely empty, clean containers should be recycled. Do not dispose of together with household waste. Do not allow to enter the sewage system. Do not empty into drains.
VOC content as per the "Decopaint" Directive (2004/42/EC)	EU limit value for the product (cat A/i): max. 140 g/l (2010). This product contains < 1 g/l VOC.

VOC	
Kat.	A/i
2010:	140g/l
max.:	<1g/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.