

Get it done the right way:

# Coating systems for wooden stairs

Focus solutions



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remmers

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# The complete range of services for the staircase surface

All the essentials for joiners



Cooperation with a wide reach



Real-world references



Cutting-edge technology



Special detailed solutions



Quality products



Extensive service offering



OUR PRODUCT RANGE

# Water-based coating systems



© Stairs: Tischlerei Hülasing

## Transparent coating systems

The transparent stair coatings from Remmers boast excellent stability and optimum foam-free working conditions for coating suspended components, as well as good build for economical application, superb emphasis of the wood grain, high transparency and good resistance to hand creams and abrasion. When it comes to look and feel, you can hardly tell the difference between them and their solvent-based counterparts. What's more, 1K Aqua varnishes are

streets ahead of solvent-based products when it comes to environmental properties and drying times.

## Opaque coating systems

In addition to having excellent hiding power, our water-based opaque coating systems are quick to dry and easy to sand. This allows complete coating systems to be applied in just one day. With an efficient, hydrophobic, opaque coating system, even woods prone to swelling, such as beech, can be used for stair stringers without leaving glue lines.

## Transparent coating systems

Range of use	System structure	Property profile/advantages
Pore-filling varnish: stairs & other interior components, all wood types	<ul style="list-style-type: none"> <li>■ If needed: Aqua KB-004 / PB-006 (for colour finishes)</li> <li>■ Aqua TL-412 *</li> <li>■ Aqua TL-412 *</li> </ul>	<ul style="list-style-type: none"> <li>■ Economical coating on suspended surfaces (stability &amp; defoaming)</li> <li>■ Durable finished surfaces in two application steps</li> <li>■ Slip-resistant surfaces "R10" with SM-820</li> <li>■ Also for ship interior finishing (IMO) and public areas (fire resistant)</li> </ul>
Pore-filling, cloth matt natural effect varnish: stairs and other interior components, light wood	<ul style="list-style-type: none"> <li>■ Aqua NTL-420/05 **</li> <li>■ Aqua NTL-420/05 **</li> </ul>	<ul style="list-style-type: none"> <li>■ For stair coatings with no creaking</li> <li>■ Economical coating on suspended surfaces (stability &amp; defoaming)</li> <li>■ Durable finished surfaces in two application steps</li> <li>■ Slip-resistant surfaces "R10" and no creaking</li> </ul>

## Opaque coating systems

Range of use	System structure	Property profile/advantages
Opaque colour coating: interior MDF	<ul style="list-style-type: none"> <li>■ Aqua PF-430 [iac]</li> <li>■ Aqua CL-440 ***</li> <li>■ If needed: Aqua SL-418 / TL-412 *** (for resistance to metal rings)</li> </ul>	<ul style="list-style-type: none"> <li>■ Efficient: high covering power, fast drying, very easy to sand</li> <li>■ Indoor air cleaning: creates healthier living environments by trapping formaldehyde</li> <li>■ Excellent flow properties for visually and haptically flawless surfaces</li> <li>■ Also for ship interior finishing (IMO) and public areas (fire resistant)</li> </ul>
Opaque 4in1 colour coating: interior MDF	<ul style="list-style-type: none"> <li>■ Aqua CL-445 4in1 ***</li> <li>■ Aqua CL-445 4in1 ***</li> </ul>	<ul style="list-style-type: none"> <li>■ Sealing, filler, colour varnish and topcoat in a single product</li> <li>■ High covering power and build, excellent adhesion and resistance to metal rings</li> <li>■ Easy to store, more efficient surface preparation</li> </ul>
Opaque colour finish with emphasis of pores: all interior finishing work, fine-pored and coarse-pored wood	<ul style="list-style-type: none"> <li>■ Aqua CL-445 4in1 ***</li> <li>■ Aqua CL-445 4in1 ***</li> </ul>	<ul style="list-style-type: none"> <li>■ Optimal sealing effect</li> <li>■ Good flow properties: optimum pore emphasis/wetting</li> <li>■ For durable surfaces with resistance to metal rings without a topcoat</li> </ul>
Opaque colour coating: stairs, all wood types	<ul style="list-style-type: none"> <li>■ Aqua HWS-712 [eco] (alternative: Aqua IF-431)</li> <li>■ Aqua PF-430 [iac] + Aqua VGA-485</li> <li>■ Aqua CL-445 4in1 ***</li> <li>■ Topcoat for stairs and handrails: Aqua TL-412 ***</li> </ul>	<ul style="list-style-type: none"> <li>■ Very good sealing effect: prevents swelling and yellowing even on hevea, beech and other problematic wood types</li> <li>■ Economical coating on suspended surfaces (stability &amp; defoaming)</li> <li>■ Indoor air cleaning: creates healthier living environments by trapping formaldehyde</li> </ul>
Opaque rear glass colour finish: interior glass, kitchens and bathrooms	<ul style="list-style-type: none"> <li>■ Cleaning: UN-894</li> <li>■ Aqua CL-440/CL-445 4in1 + Aqua VGA-485</li> </ul>	<ul style="list-style-type: none"> <li>■ No duplicate purchasing and storage</li> <li>■ Durable glass varnish with available wood varnishes/components</li> <li>■ Highly opaque thanks to excellent covering power</li> <li>■ Excellent wet adhesion with Aqua VGA-485</li> </ul>
Metal and plastic varnish: interior finishing, kitchens and bathrooms	<ul style="list-style-type: none"> <li>■ Cleaning: UN-894</li> <li>■ Aqua AG-26</li> <li>■ Aqua CL-440***</li> <li>■ Optional topcoat: Aqua SL-418***</li> </ul>	<ul style="list-style-type: none"> <li>■ No duplicate purchasing and storage</li> <li>■ Durable coating for non-wood substrates with existing wood varnishes</li> <li>■ With tested corrosion protection</li> </ul>

\* Optional: + Aqua VGA-485 for an additional durability boost (project work etc.)

\*\* Optional: + Aqua VGA-485 for an additional durability boost (project work & glass lacquer)

\*\*\* Optional: + Aqua VGA-485 for an additional durability boost

## Aqua TL-412 Stair Varnish

High-build, abrasion-resistant 1K finish

- Quick-drying and easy to sand
- Excellent build (after just 2 coats of varnish)
- Excellent de-foaming action, even on vertical surfaces and dark substrates
- Resistant to abrasion and scratches
- No creaking
- Good resistance to a wide range of commercially available hand creams
- Add SM-820 for "R10" slip resistance
- Fire resistant
- Dull matt, matt, silk matt
- 2K-ready



## Aqua NTL-420/05 Natural Effect Stair Varnish

High-build, abrasion-resistant 1K finish for natural wood effects

- Cloth matt, natural wood surface
- Excellent build (after just 2 coats of varnish)
- Excellent de-foaming action, even on vertical surfaces
- Resistant to abrasion, scratches & chemicals
- No creaking
- Slip resistance rating "R10" (DIN 51130:2014)
- 2K-ready



## Aqua PF-430 Pigment & Sealing Filler [iac]

Very easy to sand 1K pigment filler with indoor air cleaning effect – with Aqua VGA-485 as sealing filler

- Indoor air cleaning [iac]: reduces formaldehyde in indoor air
- One component: easy to use and cost-effective
- Excellent filling properties and hiding power
- High stability
- Fast drying
- Very easy to sand
- Fire resistant
- 2K ready: with Aqua VGA-485 as sealing filler



# Aqua IF-431-1K Sealing Filler

Pore-filling 1K filler with very good sealing power, for wood with high levels of active substances

- One component: easy to use and cost-effective
- Very good sealing effect (moisture and water-soluble substances in wood)
- Wood with high levels of active substances such as ash, hevea, oak, whitewood/yellow poplar
- Primer for coatings that emphasise pores
- Good sanding properties
- Low risk of sanding through
- Can be coated with water-based and PUR varnishes



# Aqua CL-445 Colour Opaque 4in1

Multi-layer 1K colour varnish for use as sealer, filler, colour coating & topcoat

- One component: easy to use and cost-effective
- Functions: sealing layer, filler, colour coating and topcoat
- Good flow properties
- Fast drying
- Good covering power
- Resistant to metal rings
- Good resistance to chemicals
- Lightfast
- Fire resistant
- Cloth matt or semi-matt
- 2K-ready



# Aqua VGA-485 Crosslinker & Glass Lacquer Additive

Improves the resistance and adhesion to glass of selected 1K Aqua varnishes

- 2K ready: improves the resistance to chemicals, hand creams, disinfectants, scratches and abrasion of selected 1K varnishes
- Significantly improves adhesion of the coating on glass and primer films
- Isocyanate-free
- Simple, accurate application with special container
- No pot life (the coating returns to its 1K properties after 8 hours)



OUR PRODUCT RANGE

# Oils and hard wax sealers



© Timo Lutz Werbefotografie

# Naturally beautiful and highly durable

## Long-lasting coatings without compromise

We offer products based on natural oils and waxes, in clear and pigmented variants, as an alternative to conventional varnishes for coating wooden stairs. A special feature of these products is their particularly natural look and feel. They are easy and efficient to apply, and are surprisingly durable for their product category.

### **HWS-112 & Aqua HWS-712 [eco] Hard Wax Seal: as attractive as an oil – as safe as a varnish**

These products create surfaces with the durability of a 2K varnish system and the look and feel of an oiled finish.

### **HSO-118 High Solid Oil [eco]: efficient and sustainable for a healthy living environment**

Our latest-generation high-solid oil has a renewable raw materials content of well over 90%. It is also a vegan product with a wealth of certifications verifying its emissions behaviour, and is efficient in application. In addition to its eco-credentials, it is also exceptionally durable, especially when used as the single-layer 2K variant.

## Coating systems

Range of use	System structure	Property profile/advantages
Highly durable 1K sealant with oil effect finish: all areas including kitchens, bathrooms & stairs, all wood types	<ul style="list-style-type: none"> <li>■ If needed: OB-008 (for colour finishes)</li> <li>■ HWS-112 clear (can be tinted for particularly intensive colours)</li> <li>■ HWS-112 clear</li> </ul>	<ul style="list-style-type: none"> <li>■ As attractive as an oil – as safe as a varnish</li> <li>■ Ultra-natural, cloth matt finish and very high durability</li> <li>■ Versatile application: roller and spraying</li> <li>■ Multiple certifications: e.g. slip resistance R10; IMO for ship interior finishing</li> </ul>
Highly durable 1K sealant with oil effect finish, based on renewable raw materials: all areas including kitchens, bathrooms & stairs, all wood types	<ul style="list-style-type: none"> <li>■ If needed: Aqua KB-004 / OB-008 / HSO-118 [eco] pigmented (for colour finishes)</li> <li>■ Aqua HWS-712 [eco] clear /grain+ / natural effect*</li> </ul>	<ul style="list-style-type: none"> <li>■ As attractive as an oil – as safe as a varnish</li> <li>■ Versatile application: roller and spraying</li> <li>■ Ultra-natural, cloth matt finish and very high durability</li> <li>■ Efficient coating process thanks to fast drying</li> <li>■ For public areas: fire resistant</li> <li>■ Vegan and based on renewable raw materials</li> <li>■ VOC-free: for sustainable construction &amp; healthy living</li> </ul>
Durable, clear oil surface finish based on renewable raw materials: wooden floors, furniture & interiors, especially oak & softwood	<ul style="list-style-type: none"> <li>■ HSO-118 [eco] clear + OH-180 [eco]</li> <li>■ Repeat process if necessary (absorbent wood types)</li> </ul>	<ul style="list-style-type: none"> <li>■ Efficient application</li> <li>■ Excellent emphasis of the grain for an organic wood finish</li> <li>■ Excellent emission properties for healthy living environments</li> <li>■ Anti-static: does not attract dust</li> </ul>
Durable, oiled surface with a colour finish, based on renewable raw materials: wooden floors, furniture & interiors, especially oak & softwood	<ul style="list-style-type: none"> <li>■ HSO-118 [eco] tinted + OH-180 [eco]</li> <li>■ A topcoat of HSO-118 [eco] clear can be applied to surfaces subjected to heavy stresses</li> </ul>	<ul style="list-style-type: none"> <li>■ 3in1 oil: stain, oil and wax sealing coat</li> <li>■ Efficient application</li> <li>■ Excellent emphasis of the grain for an organic wood finish</li> <li>■ Excellent emission properties for healthy living environments</li> <li>■ Anti-static: does not attract dust</li> </ul>

\*Optional: + Aqua VGA-485 for an additional durability boost

## OB-008 Oil Stain

Solvent-based linseed oil stain with a very long open time

- Application by roller, brush, spreader or pad
- Ready-to-use base colours that can be mixed with each other
- Long open time for streak-free application
- Intense colouring
- Made from renewable raw materials (linseed oil and natural resin)
- Cobalt-free and MEKO-free



## HSO-118 High Solid Oil [eco]

High-solid wood finish made from renewable raw materials, for protection in a single coat

- 3in1 oil: stain, oil and wax sealant
- For wooden floors, cork floors and wooden stairs
- Renewable raw material content: at least 90%
- Slip-resistant
- Penetrates deeply into the wood and emphasises the grain
- Durable, dirt repelling, hard-wearing
- Good resistance to selected household substances
- A single application is often enough - especially in single-layer 2K application with OH-180 [eco]
- Clear or pigmented



## HWS-112 Hard Wax Seal

Durable 1K wood sealer for a natural look and two-time application

- Roller and spray application
- Fast drying
- Resistant to abrasion and scratches
- Excellent resistance to chemicals
- Slip resistance rating "R10" (DIN 51130:2014)
- Very low tendency to shine
- Natural look and feel
- Clear or pigmented



## Aqua HWS-712 Hard Wax Seal [eco]

Water-based, hard-wearing 1K sealant made from renewable raw materials, for two applications

- For universal use on interior wood
- Patio furniture in sheltered outdoor areas
- Water-repelling primer: minimises swelling behaviour (opaque coatings)
- Natural look and feel
- Very fast drying
- Resistant to abrasion and scratches
- Resistant to chemicals: DIN 68861, 1B
- Slip-resistant and no creaking
- Very low tendency to shine
- Made from renewable raw materials: min. 80%
- A vegan product based on the information available to us
- VOC-free and mild odour
- Cloth matt, variants: clear, grain+ and natural effect





## Maintenance Kit

for oiled surfaces

- Preserves the value of furniture, stairs and floors
- For extending intervals between renovation
- Seals micro-cracks in the coating
- Contains: 1 abrasive cloth, 250 ml cleaner, 375 ml Hard Wax Oil & 2 special cloths



ABOUT US



# Experience Centres for Wood Surfaces in Lönningen & Hiddenhausen

The future of wood coatings starts here

The technical capabilities of the Experience Centres enable us to develop product systems that are fit for the future and meet all the individual wishes and needs of our customers. The Experience Centres fulfil the following key functions:

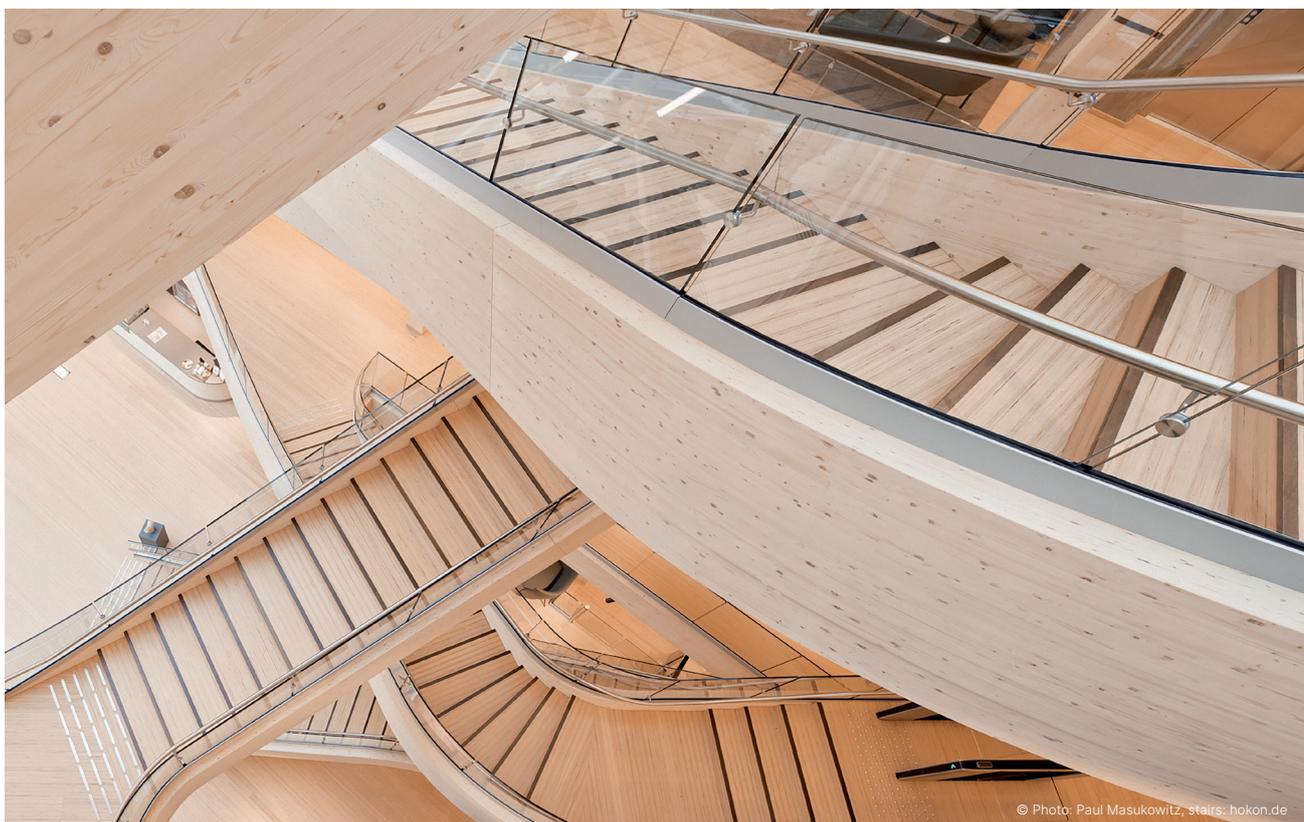
- ✓ International research, customer and service centre as well as training site – all under one roof
- ✓ Reproduction of all customer parameters via real simulations of practical requirements with adjustable climate zones
- ✓ Cutting-edge system technology including a wide-belt sander, modern manual spraying stations, fully automatic 6-axis coating robot with 3D part detection, UV processing belt and coating machine
- ✓ Faster development of new coating systems
- ✓ Qualified knowledge transfer thanks to the integrated training and seminar centre



# Working closely with industry associations

Active knowledge exchange in the fields of stair construction and joinery

Comprehensive knowledge transfer and constructive exchange between companies, workshops, industry experts and product users are vital to the research and development of innovative product solutions for wood surfaces. For this reason, we have been represented in numerous associations and institutions for many years. Our activities range from organising and conducting training, to giving talks at meetings and specialist conferences, providing individual advice to fellow companies and supporting development programmes.



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# We get it done so that you can get things done

Whatever you have in mind:

We at Remmers do everything to personally support you, your work, your project, your idea, your vision, to reach your goal.

We never stand still and we always go one step further for you.

We drive tomorrow's products and services forward. And strive for sustainable development. Because we know from over 70 years of experience: Progress comes from getting things done, success comes from getting things done, the future comes from getting things done.

What can we get done for you?  
Don't hesitate to get in touch.



**“Never stop  
starting and  
never start  
stopping.”**

Guiding principle of  
Bernhard Remmers,  
founder



**Exceptional range  
of products and  
services**



**Tailored  
solutions**



**Production in  
Germany**



**Distributed in more  
than 30 countries**

**We are there for  
you with a fast and  
personal response.**



Find your  
local contact

**Find out what we  
can get done for you:**



Subject to changes. The current version of the applicable Technical Data Sheet is relevant for legal matters. Colour variations are possible. Global contact: [www.remmers.com/remmers-worldwide](http://www.remmers.com/remmers-worldwide)

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