

Get it done the right way:

# Wood preservation and restoration for the timber trade

Focus solutions



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**remmers**

#### Digital brochure

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# Preserving quality timber elements

From preventive protection to combating insect infestations and long-lasting restoration

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# Progress comes from getting things done

Innovative wood protection, exceptional quality



## **For you and together with you.**

We know from 75 years of experience: Progress comes from getting things done. Success comes from getting things done. The future comes from getting things done. And this is why, over the years, we have evolved into a leading specialist for wood protection and finishing, with a presence throughout Europe.



## **Comprehensive wood protection**

We know from experience how complex construction problems can be. And this is true when it comes to wood protection too – individual solutions are often needed here. Our wide range of approved, high-performance wood preservatives and protection agents give you all the options you need. If you're looking for the very best solution, we are here to help.



## **Sophisticated analysis**

The Bernhard Remmers Institute for Analytics is an independent testing laboratory and expert partner for skilled traders, architects, specialists and public institutions. Thanks to its high-performance analytical technology, more than 200 testing methods are possible.

## **Customer-oriented service in all disciplines**

Our priority is to ensure that we always satisfy market and customer requirements. This ranges from research and development of product systems, through to sales and logistics, as well as knowledge transfer and customer service.

By establishing clear divisions between our areas of expertise, we create considerable added value for customers and business partners alike.

PREVENTIVE WOOD PROTECTION

# Effective support for structural wood protection



DIN 68800 is the key standard that governs all topics relating to wood protection and preservation. Although there are many ways to influence wood protection through design measures, the use of chemical wood preservatives is often unavoidable. With its ready-to-use impregnation agents and wood preservative concentrates, Remmers is here to help you use wood preservatives responsibly, increase the level of protection, and extend the life of wooden elements – not least in order to keep CO<sub>2</sub> locked up for the longest time possible.

**The benefits for you – the promise from us:**

- ✓ Safety: broad spectrum of activity and approved products
- ✓ Highly cost-effective thanks to low application quantities and fast drying times

## Recommended products

### Ready-to-use products



**IG-10 Impregnation Primer IT**

Liquid, solvent-based wood preservative with preventive efficacy against blue stain, rot, insects and termites



**Aqua IG-15 Impregnation Primer IT**

Liquid, water-based wood preservative with preventive efficacy against blue stain, rot, insects and termites



**Adolit Holzbau B**

Water-based, heavy-metal-free, ready-to-use wood preservative

### Concentrates



**Adolit BQ 20**

Water-soluble, heavy-metal-free, liquid wood preservative concentrate



**Adolit BQ 30**

Water-soluble, heavy-metal-free, liquid wood preservative concentrate



**Adolit Colour Concentrate (BQ)**

Aqueous colour concentrate for uniform tinting of the wood

# IG-10 Impregnation Primer IT

Liquid, solvent-based wood preservative with preventive efficacy against blue stain, rot, insects and termites

<b>Range of use</b>	<ul style="list-style-type: none"> <li>■ For use on exterior wood</li> <li>■ Wood without ground contact as per DIN EN 335-1, use classes 2 &amp; 3</li> <li>■ Wood elements with no dimensional stability: e.g. fences, framework, carports, planking</li> <li>■ Wood elements with limited dimensional stability: e.g. folding shutters, matchboarding, summerhouses</li> <li>■ Load-bearing wood elements under roofs (e.g. trusses)</li> <li>■ Dimensionally stable wood elements (as a primer only): e.g. windows and doors</li> <li>■ Pre-treatment under translucent or opaque coatings</li> <li>■ Do not use on wood intended to come into direct contact with food or feed</li> <li>■ Do not use the product for the treatment of wooden surfaces in living areas, with the exception of the insides of windows and doors. Undeveloped attics, commercially used premises and generally uninhabited interior rooms are not considered recreation rooms.</li> <li>■ Approved wood preservative according to DIN 68800-3</li> </ul>
<b>Property profile</b>	<ul style="list-style-type: none"> <li>■ Preventive protection against wood-staining fungi (blue stain), wood-destroying fungi (rot), insects and termites</li> <li>■ Resistant to swelling, regulates moisture</li> <li>■ Impregnated wood is compatible with all subsequent coatings</li> <li>■ Cost-effective thanks to low application rate</li> </ul>
<b>Certificates/test standards</b>	<ul style="list-style-type: none"> <li>■ Approved as per Biocidal Products Regulation (EU) No 528/2012</li> </ul>
<b>Application / Tips on use</b>	<ul style="list-style-type: none"> <li>■ Brush application, dipping, flow coating; spray in closed systems only</li> <li>■ Use biocides safely. Always read the label and product information before use.</li> </ul>
<b>Application rate</b>	<ul style="list-style-type: none"> <li>■ Preventive protection against blue stain, rot, insects and termites at 150 ml/m<sup>2</sup></li> </ul>
<b>Overcoating</b>	<ul style="list-style-type: none"> <li>■ After approx. 24 hours (practice values at 20 °C and 65% relative humidity)</li> </ul>

<b>Quantity per pallet</b>	<b>84</b>	<b>50</b>	<b>22</b>
<b>Packaging unit</b>	5 l	10 l	20 l
	Tin canister	Tin canister	Tin bucket
<b>Container code</b>	05	10	20
<b>Art. no.</b>			
clear	7144	■	■
light brown	7142		■
dark brown	7143		■



<b>System products</b>	<b>Art. no.</b>
AG-20 Universal Primer	(7150)
HSL-30/m Premium Wood Protection Stain 3in1*	(7100)
MSL-40/sm Medium Build Stain UV+	(7240)
VL-60/sm Opaque Coating 3in1	(7170)

**\*Use biocides safely. Always read the label and product information before use.**

# Aqua IG-15 Impregnation Primer IT

Liquid, water-based wood preservative with preventive efficacy against blue stain, rot, insects and termites

<b>Range of use</b>	<ul style="list-style-type: none"> <li>▪ For use on exterior wood</li> <li>▪ Wood without ground contact as per DIN EN 335-1, use classes 2 &amp; 3</li> <li>▪ Wood elements with no dimensional stability: e.g. fences, framework, carports, planking</li> <li>▪ Wood elements with limited dimensional stability: e.g. folding shutters, matchboarding, summerhouses</li> <li>▪ Load-bearing wood elements under roofs (e.g. trusses)</li> <li>▪ Dimensionally stable wood elements (as a primer only): e.g. windows and doors</li> <li>▪ Pre-treatment under translucent or opaque coatings</li> <li>▪ Do not use on wood intended to come into direct contact with food or feed</li> <li>▪ Do not use the product for the treatment of wooden surfaces in living areas, with the exception of the insides of windows and doors. Undeveloped attics, commercially used premises and generally uninhabited interior rooms are not considered recreation rooms.</li> <li>▪ Approved wood preservative according to DIN 68800-3</li> </ul>
<b>Property profile</b>	<ul style="list-style-type: none"> <li>▪ Preventive protection against wood-staining fungi (blue stain), wood-destroying fungi (rot), insects and termites</li> <li>▪ Reduces spotting when used in combination with coloured primers</li> <li>▪ Impregnated wood is compatible with all subsequent coatings</li> <li>▪ Cost-effective thanks to low application rate</li> <li>▪ Fast drying</li> </ul>
<b>Certificates/test standards</b>	<ul style="list-style-type: none"> <li>▪ CTB-P + certificate</li> <li>▪ Approved as per Biocidal Products Regulation (EU) No 528/2012</li> </ul>
<b>Application / Tips on use</b>	<ul style="list-style-type: none"> <li>▪ Brush application</li> <li>▪ Use biocides safely. Always read the label and product information before use.</li> </ul>
<b>Application rate</b>	<ul style="list-style-type: none"> <li>▪ 100 ml/m<sup>2</sup>: for use against fungi, insects and termites</li> </ul>
<b>Overcoating</b>	<ul style="list-style-type: none"> <li>▪ After approx. 4 hours (practice values at 20 °C and 65% RH)</li> </ul>



System products	Art. no.
Aqua AG-26 Universal Primer	(7147)
Aqua MSL-45/sm Medium Build Stain UV+	(7130)
Aqua OML-48/tm Medium Build Oil Stain [eco]	(7710)
Aqua DSL-55 High Build Stain PU	(7220)
Aqua VL-66/sm Venti-coat 3in1	(7090)
Rofalin Acrylic	(2330)
Rofalin Acrylic Plus	(2329)
Aqua DL-65 Top PU	(7200)
Aqua OWF-68/tm Weather Protection Oil Finish [eco]	(7740)

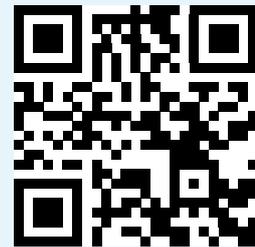
Quantity per pallet	672	200	96	22
Packaging unit	3 × 0.75 l	2 × 2.5 l	5 l	20 l
	Tin bucket	Tin bucket	Tin bucket	Tin bucket
Container code	01	03	05	20
<b>Art. no.</b>				
clear	7145	■	■	■



# Adolit Holzbau B

Water-based, heavy-metal-free, ready-to-use wood preservative

<b>Range of use</b>	<ul style="list-style-type: none"> <li>Interior wood and wood in protected outdoor areas</li> <li>Wood without ground contact as per DIN EN 335-1, use classes 1 &amp; 2</li> <li>Building elements subjected to static loads</li> <li>Wood not subjected to static loads</li> <li>Also suitable for solid structural timber</li> </ul>
<b>Property profile</b>	<ul style="list-style-type: none"> <li>Ready to use</li> <li>Good penetration</li> <li>Preventive protection against wood-damaging insects and fungi</li> <li>Does not attack plastics, glass, copper &amp; iron or their paintwork</li> <li>Weak characteristic odour</li> </ul>
<b>Certificates/test standards</b>	<ul style="list-style-type: none"> <li>Approved as per Biocidal Products Regulation (EU) No 528/2012</li> </ul>
<b>Application / Tips on use</b>	<ul style="list-style-type: none"> <li>Brush application, borehole impregnation under pressure, borehole impregnation</li> <li>Use biocides safely. Always read the label and product information before use.</li> </ul>
<b>Application rate</b>	<ul style="list-style-type: none"> <li>Preventive protection against rot and insects at 100 ml/m<sup>2</sup> (= 102 g/m<sup>2</sup>)</li> </ul>
<b>Overcoating</b>	<ul style="list-style-type: none"> <li>Drying: min. 48 hours</li> <li>Next coat: min. 4 weeks</li> </ul>



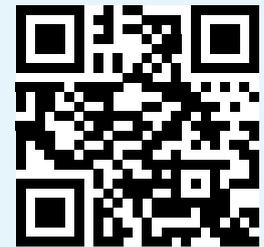
Quantity per pallet	100	84	24
Packaging unit	2.5 kg	5 kg	30 kg
	Plastic canister	Plastic canister	Plastic canister
Container code	03	05	30
<b>Art. no.</b>			
clear	2111	■	■
yellow	2112		■
brown	2115		■

System products	Art. no.
Decorative Wax Stain	(2400)
Aqua HSL-35/m Premium Wood Protection Stain 3in1	(7120)
MSL-40/sm Medium Build Stain UV+	(7240)
AG-20 Universal Primer	(7150)
VL-60/sm Opaque Coating 3in1	(7170)
HSL-30/m Premium Wood Protection Stain 3in1*	(7100)
*Use biocides safely. Always read the label and product information before use.	

# Adolit BQ 20

Water-soluble, heavy-metal-free, liquid wood preservative concentrate

<b>Range of use</b>	<ul style="list-style-type: none"> <li>Interior wood and wood in protected outdoor areas</li> <li>Wood without ground contact as per DIN EN 335-1, use classes 1 &amp; 2</li> <li>Building elements subjected to static loads</li> <li>Wood not subjected to static loads</li> <li>Also suitable for solid structural timber</li> </ul>
<b>Property profile</b>	<ul style="list-style-type: none"> <li>Preventive protection against wood-damaging insects and fungi</li> <li>Temporary protection against blue stain and mould during drying</li> <li>Highly cost-effective: low solution concentration and application quantity, short immersion time</li> <li>UV-stable control dye</li> <li>Inhibits corrosion</li> <li>Highly soluble</li> <li>Easy concentration measurement</li> <li>Active ingredients with long-term stability</li> </ul>
<b>Certificates/test standards</b>	<ul style="list-style-type: none"> <li>Approved as per Biocidal Products Regulation (EU) No 528/2012</li> </ul>
<b>Application / Tips on use</b>	<ul style="list-style-type: none"> <li>Brush application, dipping, spraying tunnel</li> <li>Store wood in a sheltered place for at least 2 days for drying/fixation and to prevent the preservative from being washed out</li> <li>Use biocides safely. Always read the label and product information before use.</li> </ul>
<b>Application rate</b>	<ul style="list-style-type: none"> <li>Use class 1 and 2 = 10 g wood preservative concentrate/m<sup>2</sup> wood</li> </ul>
<b>Overcoating</b>	<ul style="list-style-type: none"> <li>Fixing: min. 48 hours</li> <li>Next coat: min. 4 weeks</li> </ul>



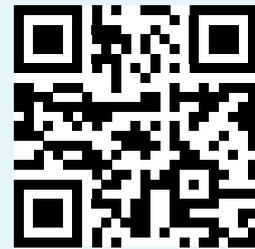
Quantity per pallet		24	4	1
Packaging unit		30 kg	120 kg	1100 kg
		Plastic drum	Tin drum	Plastic container
Container code		30	68	61
<b>Art. no.</b>				
clear	2552	■	■	■
yellow	2553	■	■	■
brown	2554	■	■	■
green	2555	■	■	■

System products	Art. no.
Adolit Colour Concentrate (BQ)	(4188)
Decorative Wax Stain	(2400)
Aqua HSL-35/m Premium Wood Protection Stain 3in1	(7120)
MSL-40/sm Medium Build Stain UV+	(7240)
AG-20 Universal Primer	(7150)
Opaque Coating 3in1	(2705)
HSL-30/m Premium Wood Protection Stain 3in1*	(7100)
*Use biocides safely. Always read the label and product information before use.	

# Adolit BQ 30

Water-soluble, heavy-metal-free, liquid wood preservative concentrate

<b>Range of use</b>	<ul style="list-style-type: none"> <li>Interior wood and wood in protected outdoor areas</li> <li>Wood without ground contact as per DIN EN 335-1, use classes 1 &amp; 2</li> <li>Building elements subjected to static loads</li> <li>Wood not subjected to static loads</li> <li>Also suitable for solid structural timber</li> </ul>
<b>Property profile</b>	<ul style="list-style-type: none"> <li>Preventive protection against wood-damaging insects and fungi</li> <li>Temporary protection against blue stain and mould during drying</li> <li>Highly cost-effective: low solution concentration and application quantity, short immersion time</li> <li>UV-stable control dye</li> <li>Inhibits corrosion</li> <li>Highly soluble</li> <li>Easy concentration measurement</li> <li>Active ingredients with long-term stability</li> </ul>
<b>Certificates/test standards</b>	<ul style="list-style-type: none"> <li>Approved as per Biocidal Products Regulation (EU) No 528/2012</li> </ul>
<b>Application / Tips on use</b>	<ul style="list-style-type: none"> <li>Brush application, dipping, spraying tunnel</li> <li>Store wood in a sheltered place for at least 2 days for drying/fixation and to prevent the preservative from being washed out</li> <li>Use biocides safely. Always read the label and product information before use.</li> </ul>
<b>Application rate</b>	<ul style="list-style-type: none"> <li>Use class 1 and 2 – 15 g wood preservative concentrate/m<sup>2</sup> wood</li> </ul>
<b>Overcoating</b>	<ul style="list-style-type: none"> <li>Fixing: min. 48 hours</li> <li>Next coat: min. 4 weeks</li> </ul>



<b>Quantity per pallet</b>	1	
<b>Packaging unit</b>	1100 kg	Plastic container
<b>Container code</b>	61	
<b>Art. no.</b>		
yellow	2566	■
brown	2567	■
special colours	2569	■

<b>System products</b>	<b>Art. no.</b>
Adolit Colour Concentrate (BQ)	(4188)
Decorative Wax Stain	(2400)
Aqua HSL-35/m Premium Wood Protection Stain 3in1	(7120)
MSL-40/sm Medium Build Stain UV+	(7240)
AG-20 Universal Primer	(7150)
HSL-30/m Premium Wood Protection Stain 3in1*	(7100)

\*Use biocides safely. Always read the label and product information before use.

# Adolit Colour Concentrate (BQ)

Aqueous colour concentrate for uniform tinting of the wood

<b>Range of use</b>	<ul style="list-style-type: none"> <li>For tinting wood in dipping, open tank and vacuum pressure procedures for structural and garden timber</li> </ul>
<b>Property profile</b>	<ul style="list-style-type: none"> <li>No settling of the water-soluble pigments</li> <li>Intense colour</li> <li>Water-dilutable</li> <li>Some light-fastness</li> </ul>
<b>Application / Tips on use</b>	<ul style="list-style-type: none"> <li>Brush application, dipping, spraying tunnel</li> <li>Store wood in a sheltered place for at least 2 days for drying/fixation and to prevent the preservative from being washed out</li> </ul>
<b>Application rate</b>	<ul style="list-style-type: none"> <li>Add 0.3 - 0.5% to the prepared protective agent solution depending on the desired colour intensity</li> </ul>

<b>Quantity per pallet</b>	24		
<b>Packaging unit</b>	25 kg Plastic canister		
<b>Container code</b>	25		
<b>Art. no.</b>			
<b>special colours</b>	4161	■	



System products	Art. no.
Adolit BQ 20*	(2552)
Adolit BQ 30*	(2565)

\*Use biocides safely. Always read the label and product information before use.

# Preventive wood protection

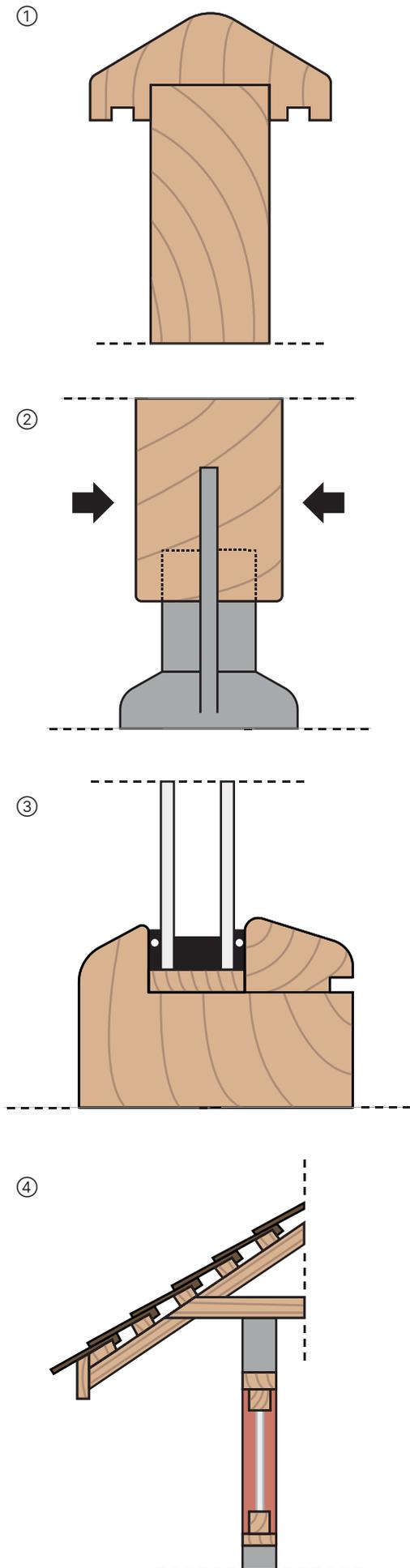
How to make sure that moisture has no chance to attack

Native softwood species do not have sufficient natural protection against wood-destroying or discolouring organisms. For these vulnerable types of wood, other measures therefore need to be taken.

## Design measures

Sustained exposure to moisture is the main culprit behind the growth of fungi that cause damage and discolouration to wood. In order to minimise the likelihood of this happening, exterior wood building elements must be designed such that contact with water can be largely avoided. If this is not possible, it must be ensured that the wood can dry out again quickly. Standing water around timber constructions should also be avoided. Design-based protection measures include, for instance, ensuring that roof overhangs are sufficiently large, avoiding direct contact with the soil (remember to take splashing water into consideration), positioning surfaces at an angle, rounding off edges, and providing coverings for horizontal surfaces.

In terms of the building structure, protection against wood-destroying insects can only be achieved by denying them access to the wood surface.



- ① Providing covers and avoiding horizontal wood surfaces offers preventive protection against all types of moisture damage.
- ② To keep wood structures away from ground moisture, standing water and splashing water, they are mounted on metal supports.
- ③ Rounded and slanted edges and surfaces make it easier for water to run off and can be used to protect wooden windows and doors, for example.
- ④ Large roof overhangs provide excellent protection for wood structures and facades, as well as wooden doors and windows.

### Approved wood preservatives

Where the wood's natural substances are not sufficient to protect it, officially approved wood preservatives can prevent infestation by fungi and insects.

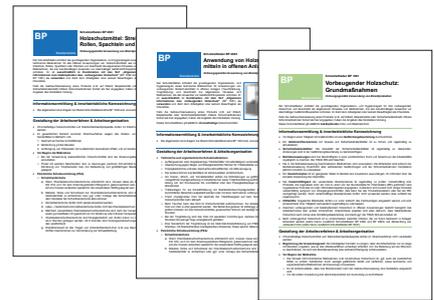
Various product types, tailored to the respective area of application, all aim to ward off biological attack by wood pests using specially selected active ingredients. This extends the lifespan of the timber component by many years.

### Components subjected to static loads

Components subject to static loads must be protected by structural measures and, if necessary, by treatment with wood preservatives. This is prescribed by law. Examples include load-bearing components such as beams, girders and columns. If treatment with wood preservatives is required, only approved products may be used. As this requires special knowledge and processes, these products may only be applied by specialist companies – usually in specially designed impregnation systems.



Please observe the BAuA safety guidelines for handling wood preservatives.



# Targeted measures to preserve infested timber constructions



Whether due to errors in the design of timber constructions or their use, damage caused by fungal or insect infestation often very quickly reduces the structural integrity of load-bearing components. Remmers wood preservatives have been providing a safe remedy for this for decades – only in the hands of expert wood specialists, of course.

**The benefits for you –  
the promise from us:**

- ✓ Safety: broad spectrum of activity and approved products
- ✓ Highly cost-effective thanks to low application quantities and fast drying times

## Recommended products

### Products for controlling insect infestations



**Anti-Insect**

Solvent-based liquid wood preservative for infestation control, for application by specialist firms



**Adolit Wood Worm Free**

Water-based wood preservative for infestation control with slow action

### Products for fungus control



**Adolit M liquid**

Protective concentrate to prevent growth of dry rot in masonry



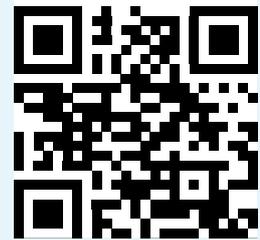
**Plastic injector  
9.5 mm packer**

For borehole impregnation under pressure

# Anti-Insect

Solvent-based liquid wood preservative for infestation control, for application by specialist firms

<b>Range of use</b>	<ul style="list-style-type: none"> <li>Interior wood and wood in protected outdoor areas</li> <li>Control of wood-destroying insects for wooden building elements e.g. roof structures, wooden beams, floors</li> <li>House borer and death watch beetle</li> <li>Not suitable for termite control</li> </ul>
<b>Property profile</b>	<ul style="list-style-type: none"> <li>Test ratings: Ib = effective control of insects</li> <li>Fast-acting control</li> <li>Preventive effect against new infestations</li> <li>With low-odour solvents</li> <li>High penetration capacity</li> </ul>
<b>Certificates/test standards</b>	<ul style="list-style-type: none"> <li>Approved as per Biocidal Products Regulation (EU) No 528/2012</li> </ul>
<b>Application / Tips on use</b>	<ul style="list-style-type: none"> <li>Apply by brushing or spraying</li> <li>Only spray in enclosed spaces. Brush and spray application: The necessary application quantity is usually reached in 2–3 treatments.</li> <li>When using for infestation control in recreation rooms or adjoining rooms, use of the room as a recreation room is only permitted after 4 weeks following the treatment.</li> <li>Use biocides safely. Always read the label and product information before use.</li> </ul>
<b>Application rate</b>	<ul style="list-style-type: none"> <li>Control: 300-350 ml/m<sup>2</sup></li> <li>Preventive protection in the context of infestation control (use class 1 only): 200-250 ml/m<sup>2</sup></li> </ul>
<b>Overcoating</b>	<ul style="list-style-type: none"> <li>Drying time: approx. 24 hours</li> </ul>



System products	Art. no.
Plastic injector	(4106)
9.5 mm packer	
integrated insertion piece	

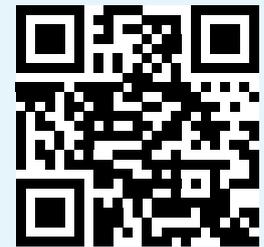
Quantity per pallet	3240	540	96	50	24
Packaging unit	4 x 250 ml	750 ml	5 l	10 l	30 l
	Tin canister				
Container code	04	01	05	10	30
<b>Art. no.</b>					
clear	2059	■	■	■	■
brown	2060			■	■

# Adolit Wood Worm Free

Water-based wood preservative for infestation control with slow action

<b>Range of use</b>	<ul style="list-style-type: none"> <li>Interior wood and wood in protected outdoor areas</li> <li>Control of wood-destroying insects for wooden building elements e.g. roof structures, wooden beams, floors</li> <li>House borer and death watch beetle</li> <li>With preventive action against fungi and insects</li> </ul>
<b>Property profile</b>	<ul style="list-style-type: none"> <li>Ready to use</li> <li>Good penetration</li> <li>Prevention of emergence pursuant to DIN EN 370</li> <li>No odour</li> <li>Test ratings: Ib = effective control of insects, Iv = preventive effect against insects, P = preventive effect against fungi (protection against rot)</li> <li>Does not attack plastics, glass, copper &amp; iron or their paintwork</li> </ul>
<b>Certificates/test standards</b>	<ul style="list-style-type: none"> <li>Approved as per Biocidal Products Regulation (EU) No 528/2012</li> </ul>
<b>Application / Tips on use</b>	<ul style="list-style-type: none"> <li>Brush application, borehole impregnation under pressure, borehole impregnation</li> <li>Brush application: 3 treatments are normally needed (wet-on-wet) to reach the required application quantity.</li> <li>When using for infestation control in recreation rooms or adjoining rooms, use of the room as a recreation room is only permitted after 4 weeks following the treatment.</li> <li>Borehole impregnation: fill boreholes 3 – 4 times, then close up with an impregnated wooden dowel.</li> <li>Use biocides safely. Always read the label and product information before use.</li> </ul>
<b>Application rate</b>	<ul style="list-style-type: none"> <li>Control: 300 ml/m<sup>2</sup></li> <li>Preventive protection in the context of infestation control: 100 ml/m<sup>2</sup></li> </ul>
<b>Overcoating</b>	<ul style="list-style-type: none"> <li>Drying: min. 48 hours</li> <li>Next coat: min. 4 weeks</li> </ul>

<b>Quantity per pallet</b>	24	
<b>Packaging unit</b>	30 kg Plastic canister	
<b>Container code</b>	30	
<b>Art. no.</b>		
clear	2213	■
brown	2215	■



System products	Art. no.
Decorative Wax Stain	(2400)
Aqua HSL-35/m Premium Wood Protection Stain 3in1	(7120)
MSL-40/sm Medium Build Stain UV+	(7240)
AG-20 Universal Primer	(7150)
VL-60/sm Opaque Coating 3in1	(7170)
HSL-30/m Premium Wood Protection Stain 3in1*	(7100)
Plastic injector 9.5 mm packer integrated insertion piece	(4106)

\*Use biocides safely. Always read the label and product information before use.

# Damage caused by wood-destroying insects

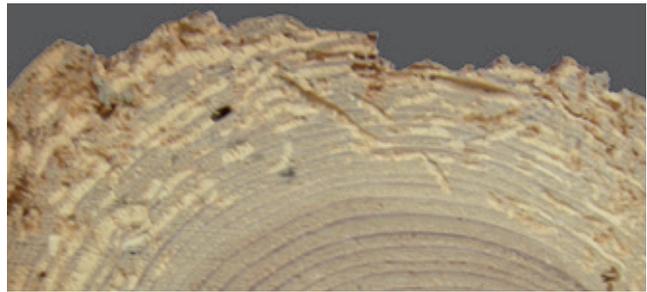
## House borer, powder post and death watch beetle



**House borer**  
(*Hylotrupes bajulus* (L.)),  
8 - 30 mm long; females larger;  
black to brown in colour; hairy  
thorax with droplet-shaped callus-  
es; forewings with 1 - 2 transverse  
bands consisting of light bristles;  
generation time: 3 - 6 (or more)  
years.



**Larva**  
Up to 35 mm long, ivory-coloured;  
few bristles; segmented body with  
raised bulges; darker head with  
black upper jaws (mandibles).



**Infestation pattern**  
Infestation of softwoods; larval feeding galleries only in sapwood with  
oval cross-section; oval exit holes  $3/4 \times 5 - 10$  mm in thin wood surface;  
bore dust with fine frass and cylindrical faecal particles.



**Brown powder post beetle**  
(*Lyctus brunneus* (Stephens)),  
2.5 - 8 mm long; reddish-brown  
in colour; +/- rectangular thorax;  
long, slender forewings; 2-limbed  
antennae;  
generation time: 0.5 - 1 years.



**Larva**  
Up to 6 mm long; whitish; curved  
abdomen; large breathing hole in  
the hind body visible with a mag-  
nifying glass (different from larvæ  
of the common furniture beetle).



**Infestation pattern**  
Infestation of starch- and protein-rich imported and native hardwoods;  
larval feeding galleries only in sapwood, with round cross-section;  
destruction to pulverisation; round exit holes 1 - 2 mm in diameter; fine  
bore dust (talcum-like) without distinct faecal particles.



**Common furniture beetle,  
"woodworm"**  
(*Anobium punctatum* (DeGeer)),  
2.5 - 5 mm long; stocky body  
shape; females larger; dark to  
black-brown in colour; thorax  
with bulge covering the head;  
forewings with dotted stripes;  
generation time: 2 - 5 years.



**Larva**  
Up to 6mm; whitish; narrowly  
curved; fine bristles.



**Infestation pattern**  
Infestation of softwood and hardwood; feeding initially on sapwood, later  
also heartwood; irregular larval feeding galleries with a round cross-sec-  
tion; round exit holes around 2 mm in diameter; bore dust with fine  
frass and faecal particles tapered on one side; tendency to cause mass  
infestation.



**Death watch beetle**  
(*Xestobium rufovillosum*  
(DeGeer)), 3 - 8 mm long; com-  
pact body shape; females larger;  
brown body (thorax, forewings)  
with yellowish bristle regions;  
thorax covers the head like a hel-  
met; beetles knock during mating  
season; generation time:  
2 - 6 (-13) years.



**Larva**  
Up to 10 mm long; whitish;  
narrowly curved; fine bristles and  
short brownish spines.



**Infestation pattern**  
Infestation of hardwood (in particular oak); feeding initially on sapwood,  
later also on heartwood; sponge-like destruction; larval feeding galleries  
with a round cross-section; round exit holes 3 - 4 mm in diameter; bore  
dust with fine frass and lenticular faecal particles.



# Controlling insect infestations

## General tips on use

### **Determine the extent of the infestation**

If a live infestation of dry-wood insects such as the house borer (*Hylotrupes bajulus*), death watch beetle (*Anobiidae*) or powder post beetle (*Lyctidae*) is detected, the extent of the infestation must first be determined. For this purpose, all structural timber must be checked for the intensity and extent of infestation at the accessible edges in the sapwood area by scribing, cutting open or drilling at an appropriate number of points. Wood-based materials should only be inspected for the presence of insect exit holes. Panelling or floorboards may need to be taken up. In areas that are difficult to access, e.g. in converted attics, the roof may need to be opened. In the case of historically valuable structural parts, it is best to avoid cutting open in order to preserve the visual appearance of the structure.

### **Strip down to the intact areas**

All wood to be treated must be stripped of bark and bast. Furthermore, the damaged parts of the structure must be removed, down to the feeding galleries further inside, and the exposed feeding galleries must be brushed out.

### **Check the structure / special situations**

The remaining cross-section must now be checked for its residual load-bearing capacity. If the structure no longer fulfils the structural requirements, reinforcement measures must be implemented using timber that has been treated with preventive protection. If necessary, a structural engineer should be consulted.

## Selecting and applying a wood preservative

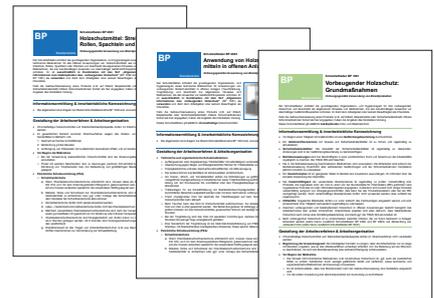
The wood surfaces exposed in this way can now be treated by brushing or spraying. The solvent-based Anti-Insect\* must be applied in at least two coats and the salt-based product Adolit Wood Worm Free\* in three coats.

The required application quantity for infestation control agents is 300 – 350 ml/m<sup>2</sup>. The effectiveness of wood preservatives for infestation control is determined by the active ingredients used. Fast or slow-acting agents are used. In the case of slow-acting products, it is possible for a living residual infestation (especially in the case of woodworm infestation) to still be present after up to 5 years.

On historically valuable structural parts and in areas that are difficult to access, where it is not possible to remove the damaged parts or treat all sides with the protective agent, a borehole impregnation or borehole pressure impregnation must also be carried out. The latter is particularly advantageous for overhead working. Details on this special procedure can be found in the technical data sheets of the respective products.



Please observe the BAuA safety guidelines for handling wood preservatives.



\* Use biocides safely. Always read the label and product information before use.

# Adolit M liquid

Liquid protective concentrate to prevent growth of dry rot through masonry

<b>Range of use</b>	<ul style="list-style-type: none"> <li>▪ Porous, mineral building materials</li> <li>▪ Masonry under roofs (not exposed to weather)</li> <li>▪ Inhibiting agent against dry rot</li> </ul>
<b>Property profile</b>	<ul style="list-style-type: none"> <li>▪ Broad spectrum of activity thanks to effective combination of active ingredients with long-term stability</li> <li>▪ Inhibits corrosion</li> <li>▪ Highly soluble</li> </ul>
<b>Certificates/test standards</b>	<ul style="list-style-type: none"> <li>▪ Approved as per Biocidal Products Regulation (EU) No 528/2012</li> </ul>
<b>Application / Tips on use</b>	<ul style="list-style-type: none"> <li>▪ Brush, borehole impregnation under pressure, borehole impregnation</li> <li>▪ To ensure lasting results, it is important to eliminate the causes of moisture that combined with a spore infection to trigger the infestation, and to observe the standards DIN 68 800-4: (Wood preservation; Curative treatment of wood destroying fungi and insects), DIN 68 800-2: (Wood preservation; Preventive constructional measures in buildings) and DIN 68 800-3: (Wood preservation; Preventive protection of wood with wood preservatives).</li> <li>▪ Use biocides safely. Always read the label and product information before use.</li> </ul>
<b>Application rate</b>	<ul style="list-style-type: none"> <li>▪ Surface method: 50 g concentrate per m<sup>2</sup> Usage concentration: 10% (500 g of ready-to-use solution)</li> <li>▪ Borehole (pressure) saturation: 3 kg concentrate per m<sup>3</sup> masonry Usage concentration: 10 - 40% (7.5 - 30 kg of ready-to-use solution)</li> </ul>

Quantity per pallet	84	60	24
Packaging unit	5 kg	10 kg	30 kg
	Plastic canister	Plastic canister	Plastic canister
Container code	05	10	30
<b>Art. no.</b>			
clear	2100	■	■



System products	Art. no.
Adolit Holzbau B*	(2111)
IG-10 Impregnation Primer IT	(7144)
Kiesol	(1810)
BSP 3	(0312)

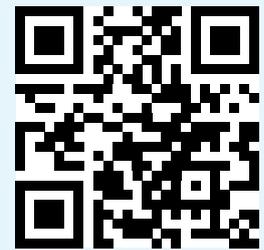
**\*Use biocides safely. Always read the label and product information before use.**

# Plastic injector 9.5 mm packer

Integrated insertion piece

Range of use	▪ Injection of wood preservatives
Property profile	▪ Includes insertion piece ▪ Material: plastic
Application / Tips on use	▪ Drive in directly with a hammer
Application rate	▪ 1 packer per borehole

Quantity per pallet	
Packaging unit	100 pcs Bag
Container code	01
Art. no.	
clear	■



System products	Art. no.
Anti-Insect*	(2059)
Adolit Wood Worm Free*	(2213)

\*Use biocides safely. Always read the label and product information before use.



## Damage caused by dry rot

### Wood-destroying fungi



**Dry rot**  
(*Serpula lacrymans* (Wulf.) Fr. Schroet.) initially cotton-like, white, later dirty grey and lobed, possibly with yellow or red spots. The mycelium pads detach easily from the substrate. Formation of mycelium strands up to 6 mm thick, which break with a distinct cracking sound when dry.



**Fruiting body**  
Wrinkled, yellow to reddish brown with a white growth margin. 1 - 2 cm thick. Can be easily removed from the surface when young. Forms abundant brown spores, which are often distributed throughout the room. Old fruiting bodies turn black-brown in colour.



**Infestation pattern**  
Shrinkage cracks in the wood with often coarse square breakage pattern and brown discoloration. Cracking in the varnish, as well as warping and bulging; mainly affects softwood but also attacks hardwood.

# Combating dry rot

## General tips on use

### Determine the type of fungus

In the case of fungal infestation, the type of fungus must first be determined, as this will dictate the type and extent of the remedial measures. It is assumed that an examination of the type and extent of infestation and thus the necessity of any control measures has been carried out by a qualified expert. If there is a possibility of fungal strands growing through the masonry into neighbouring rooms, these must also be examined for infestation. Dry rot must be determined beyond doubt. If this cannot be done macroscopically, laboratory tests must be carried out. Thorough investigations into the cause of the elevated moisture levels in masonry and wood are required. The moisture source must be eliminated. It must be ensured that moisture saturation does not occur again.

### Dry rot

Dry rot is the most dangerous and difficult fungus to combat in buildings. It can attack wood with a wood moisture content in the fibre saturation range, and can introduce moisture into dry wood, allowing the infestation to spread further. It grows through masonry and other inorganic materials and infests neighbouring wooden components.

### Eliminate the cause

The normal moisture content of the wood (below 18%), the air and the masonry must be restored by means of structural measures. It must be ensured that moisture contained in the wood and other building materials can escape as quickly as possible and that no new moisture is absorbed. If necessary, drying units (e.g. condensation dryers) must be used for this purpose.



## WOOD INFESTATION CONTROL

### Treatment of the wood

Remove the surface mycelium and fruiting bodies. Infested wood must be removed at least 1 metre beyond the visible infestation in the longitudinal direction. Infested fillings and insulating materials must be removed at least 1.5 metres beyond the visible infestation.

The removed materials must be disposed of properly. Disposal must be carried out in such a way that the infested material cannot become the starting point for a new infestation. When installing new wood, DIN 68800-1, DIN 68800-2 and DIN 68800-3 must be observed. The remaining unaffected timber as well as new timber to be installed must be treated with a preventive wood preservative depending on the risk. For preventive chemical wood protection, Adolit Holzbau B, Adolit BQ 20, Adolit BQ 30, IG-10 Impregnation Primer etc. can be used.

### Infestation on masonry

If a building is found to be infested with dry rot, the plaster, grout and masonry must also be examined for fungal growth. This applies in particular to cavities, e.g. in double or multi-leaf masonry. If an infestation is detected, control and remediation measures are also required here.

### Surface treatment

In the case of superficial mycelium growth without growths in the masonry, surface treatment can be considered sufficient. The renovation area, including plaster removal, should extend at least 1.5 metres beyond the visible infestation. Firstly, the plaster is knocked off and loose or damaged grout is scraped out or removed. The masonry can then be flamed, which kills superficially adhering spores and enables mycelial growths to be localised, as these burn with a crackling sound and afterglow. The masonry is then cleaned of loose plaster residues and combustion residues using a brush or industrial vacuum cleaner. Neighbouring areas, such as open ceilings, should be protected against infection by covering them.

### Application of the mould barrier agent

The masonry can now be treated with Adolit M liquid\* using the surface treatment method. In the vicinity of beam ends, the masonry should also be treated using the borehole method.

### Borehole treatment

If the masonry has been infiltrated by dry rot, borehole impregnation or borehole pressure impregnation with Adolit M liquid\* should always be carried out. The treatment must be adapted to the type of masonry.

### Borehole impregnation

The boreholes must be arranged in staggered rows at an angle of 35 - 45° facing downwards at intervals of approx. 25 cm horizontally and approx. 15 - 20 cm vertically. The borehole diameter should be 16 - 24 mm and the depth of the boreholes should be wall thickness minus 15 cm. In the area of the beam end support, reduce the distances to 10 cm vertically and horizontally. Depending on the absorption capacity, the boreholes are filled several times with the Adolit M liquid\* solution.

### Borehole pressure impregnation

Position the boreholes horizontally or at a slight downward angle in a grid pattern at intervals of approx. 25 cm horizontally and approx. 20 - 30 cm vertically. The borehole diameter should be 10 - 18 mm, depending on the injectors used, and the depth of the boreholes should be wall thickness minus 15 cm. Using a pressurised sprayer (e.g. Gloria® 405/410T Profiline), Adolit M liquid\* is applied to the masonry at low pressure (3 - 4 bar). After the borehole treatment, the wall surfaces must be treated with Adolit M liquid\* using the surface treatment method.

### Follow-up work

Scraped joints and boreholes are closed with Remmers BSP 3 (borehole suspension) after the control measure has been completed. The masonry can also be plastered again.

\* Use biocides safely. Always read the label and product information before use.



# Damage caused by other fungi

## Pore fungus, white rot and others



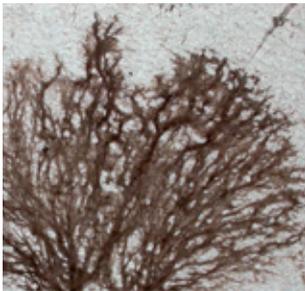
**White pore fungus**  
(*Antrodia vaillantii* (DC.: Fr.) Ryv.), white, often with branching resembling frost patterns. Strong strands are elastic even when dry, often grow apart in a circle, remain white even with age.



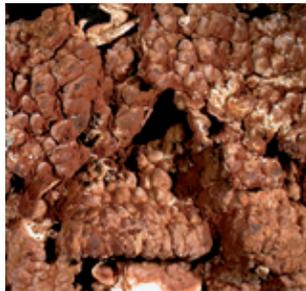
**Fruiting body**  
White, old fruiting bodies yellowish, pores clearly visible to the naked eye, often surrounded by mycelium.



**Infestation pattern**  
Brown rot with square breakage pattern. Generally only attacks softwood.



**Wet rot fungus**  
(*Coniophora puteana* (Schum.: Fr.) P. Karst.), initially white, later grey-brown to black-brown. Thin strands spread out like roots; firmly attached, overall sparser than in dry rot and white pore fungus.



**Fruiting body**  
Thin, crusty skin, wart-like elevations up to 5 mm in diameter.



**Infestation pattern**  
Brown rot with small to large square breakage pattern.



**Bracket fungi**  
(*Gloeophyllum Spp.*), no surface mycelia. Aerial mycelia in crevices possible, initially white, later yellow to reddish brown.



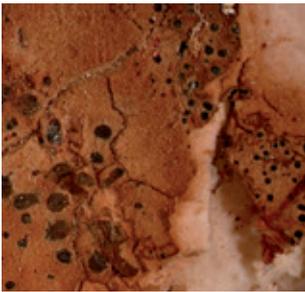
**Fruiting body**  
Semi-circular or elongated. Often protruding from cracks or crevices. Yellow to dark brown in colour.



**Infestation pattern**  
Wood initially yellowish to brown in colour, later brown-red. Decay in annual rings with small square breakage pattern, sweetish tar-like odour.



## WOOD INFESTATION CONTROL



**White rot**  
(*Donkioportia expansa* (Desm.) Kotl. & Pouz.), the white rot fungus forms white to ochre-coloured mycelial mats in cracks and cavities, up to several centimetres thick and covered with yellow droplets. Old mycelium grey-brown with black spots.



**Fruiting body**  
The fungus can form large fruiting bodies. They consist of a several cm thick, ochre to grey-brown coloured tubular layer (sometimes in several layers). When fresh, the fruiting body is tough and elastic and becomes cork-like and hard with age.



**Infestation pattern**  
The wood exhibits intensive white rot (fibrous white decay). Infestation occurs on wet hardwood and softwood.



**Soft rot**  
(*Chaetomium globosum* Kunze), infestation of heavily moisture saturated wood; wood moisture content over 80%. Young mycelium white-grey, later dark brown to black.



**No specific fruiting body**  
Recognisable feature: very soft surface, sometimes springy to the touch. In the advanced stage, very small square breakage pattern and clear marking of early and late wood areas in the cross-section or short-fibred, unnatural fracture.



**Infestation pattern**  
Soft wood surface brownish to black in colour. Very fine square breakage pattern. Microscopically visible cylindrical caverns are formed in the cell walls. Infestation occurs in softwood and hardwood (enlarged square breakage pattern).



# Control of other fungi

## General tips on use

### **Determine the extent of the damage**

A qualified expert must analyse the type and extent of damage and the associated need for control measures.

### **Remove fungus and damaged areas**

Remove mycelium, fruiting bodies and severely damaged wood, observing the safety distance specified in the standard; the wood must then be removed at least 30 cm beyond the visible infestation. In the case of slightly damaged wood whose load-bearing capacity has not been excessively impaired, it is sufficient to remove only the damaged areas down to the healthy wood.

### **Replace timber components**

New timber to be installed must be impregnated in accordance with the current use class as per DIN 68 800. If necessary, treat the parts remaining in the structure with Adolit Holzbau B\*.

### **Prevent future infestation**

Take suitable measures (e.g. drying out the masonry, repairing defective water pipes, etc.) to prevent the wood from becoming damp again.

\* Use biocides safely. Always read the label and product information before use.

WOOD RESTORATION

# Reconstructing wood



Remmers wood strengthening agents and wood replacement compounds can be used to stabilise and restore wooden components that have been damaged by insects or fungi. They have been designed in particular for use on monuments and listed buildings.

**The benefits for you – the promise from us:**

- ✓ Restoration of wooden components for monuments and listed buildings
- ✓ Coating-compatible wood replacer for interior and exterior use

## Recommended products

### Products for wood strengthening and wood replacement



#### Epoxy Wood Strengthener

Solvent-free, 2K wood strengthener based on epoxy resin



#### Epoxy Wood Substitute

Solvent-free 2K equalising compound



#### PU Wood Strengthener

1K wood strengthener and pollutant fixer based on PU



#### PU Wood Substitute

Solvent-free reconstruction kit for interior and exterior wood

# Epoxy Wood Strengthener

Solvent-free, 2K wood strengthener based on epoxy resin

<b>Range of use</b>	<ul style="list-style-type: none"><li>▪ Interior wood</li><li>▪ Only selectively on exterior wood</li><li>▪ Strengthening wood weakened by fungus and insect attack</li><li>▪ Preservation of historic wooden elements (e.g. framework, antiques)</li><li>▪ Adhesion promoter for Epoxy Wood Substitute</li></ul>
<b>Property profile</b>	<ul style="list-style-type: none"><li>▪ Strengthens and blocks water vapour</li><li>▪ High penetration capacity thanks to low viscosity</li></ul>
<b>Application / Tips on use</b>	<ul style="list-style-type: none"><li>▪ Brush application</li><li>▪ Stir the material thoroughly and apply rapidly with a brush. Repeat the process wet-on-wet if necessary. Good ventilation must be ensured.</li></ul>
<b>Application rate</b>	<ul style="list-style-type: none"><li>▪ Approx. 250 - 500 g/m<sup>2</sup> per coat depending on the substrate</li></ul>

<b>Quantity per pallet</b>	200
<b>Packaging unit</b>	1 kg Tin bucket
<b>Container code</b>	01
<b>Art. no.</b>	
clear	3161 ■



<b>System products</b>	<b>Art. no.</b>
Epoxy Wood Substitute	(3162)

# Epoxy Wood Substitute

Solvent-free 2K equalising compound

<b>Range of use</b>	<ul style="list-style-type: none"> <li>Interior wood</li> <li>Only selectively on exterior wood</li> <li>Reconstruction of wooden elements pre-treated with Epoxy Wood Strengthener</li> <li>Preservation of historic wooden elements (e.g. framework, antiquities)</li> </ul>
<b>Property profile</b>	<ul style="list-style-type: none"> <li>High compressive strength</li> <li>For reconstructing wood building elements, blocks water vapour</li> <li>Low specific weight</li> <li>Excellent modelling capability</li> <li>Can be covered with an opaque coating to level out the colour</li> </ul>
<b>Application / Tips on use</b>	<ul style="list-style-type: none"> <li>Filling knife, trowel, stainless steel float</li> <li>Tips on use: Application time max. 1 hour</li> <li>Any formwork aids required must be provided with a PE film as a release agent.</li> </ul>
<b>Application rate</b>	<ul style="list-style-type: none"> <li>0.93 kg/m<sup>2</sup> per mm layer thickness; equivalent to 0.93 kg per litre volume</li> </ul>
<b>Overcoating</b>	<ul style="list-style-type: none"> <li>After approx. 24 hours</li> </ul>

<b>Quantity per pallet</b>	60		
<b>Packaging unit</b>	3 kg Tin bucket		
<b>Container code</b>	03		
<b>Art. no.</b>			
grey	3162	■	



System products	Art. no.
Epoxy Wood Strengthener	(3161)
Rofalin Acrylic	(2330)
Aqua RG-27 Renovation Primer	(7146)
Aqua MSL-45/sm Medium Build Stain UV+	(7130)

# PU Wood Strengthener

1K wood strengthener and pollutant fixer based on PU

<b>Range of use</b>	<ul style="list-style-type: none"> <li>For use on interior and exterior wood</li> <li>Wood and wood-based materials</li> <li>Wood strengthening: strengthening and stabilisation of wood surfaces suffering from fungal or insect attack</li> <li>Moisture protection for MDF and HDF panels</li> <li>Harmful substance blocking: masking woods containing lindane, DDT and PCP (for system use with Induline SW-910). Deep fixing of active ingredients in the wood to prevent further emissions of harmful substances into the air</li> </ul>
<b>Property profile</b>	<ul style="list-style-type: none"> <li>Water vapour diffusion open</li> <li>High penetration capacity thanks to low viscosity</li> <li>Blocks substances: dissolved at the wood surface, transported into the wood &amp; fixed there (WKI tested for system use)</li> </ul>
<b>Certificates/test standards</b>	<ul style="list-style-type: none"> <li>Application instructions for harmful substance blocking</li> <li>Test report for harmful substance blocking</li> </ul>
<b>Application / Tips on use</b>	<ul style="list-style-type: none"> <li>Brush application</li> <li>Apply an even coat of the material with a brush. Repeat the process wet-on-wet if necessary. Good ventilation must be ensured.</li> </ul>
<b>Application rate</b>	<ul style="list-style-type: none"> <li>200 - 300 ml/m<sup>2</sup> depending on the substrate</li> </ul>
<b>Overcoating</b>	<ul style="list-style-type: none"> <li>After approx. 6 hours</li> </ul>

<b>Quantity per pallet</b>	<b>432</b>	<b>192</b>
<b>Packaging unit</b>	750 ml	2.5 l
	Tin canister	Tin canister
<b>Container code</b>	01	03
<b>Art. no.</b>		
clear	2379	■ ■



<b>System products</b>	<b>Art. no.</b>
Rofalin Acrylic	(2330)
Aqua DL-65 Top PU	(7200)
Aqua RG-27 Renovation Primer	(7146)
Aqua MSL-45/sm Medium Build Stain UV+	(7130)
Induline SW-910	(3777)

# PU Wood Substitute

Solvent-free resin component for reconstructing interior and exterior wood

<b>Range of use</b>	<ul style="list-style-type: none"> <li>■ For reconstructing wood building elements</li> <li>■ Beams in framework</li> <li>■ Beam end repairs</li> <li>■ Laminated wood</li> <li>■ Window renovation</li> </ul>
<b>Property profile</b>	<ul style="list-style-type: none"> <li>■ Wood effect</li> <li>■ Open to vapour diffusion</li> <li>■ Increased compressive strength</li> <li>■ Can be overcoated</li> </ul>
<b>Application / Tips on use</b>	<ul style="list-style-type: none"> <li>■ Trowel</li> <li>■ During application, do not allow any additional moisture to enter the reaction process.</li> </ul>
<b>Application rate</b>	<ul style="list-style-type: none"> <li>■ 1 litre volume for reconstruction: 0.5 kg (1 part) PU Wood Substitute and 0.25 kg (2 parts) sawdust</li> </ul>
<b>Overcoating</b>	<ul style="list-style-type: none"> <li>■ After 7 days</li> </ul>
<b>Quantity per pallet</b>	84
<b>Packaging unit</b>	5 kg
<b>Container code</b>	05
<b>Art. no.</b>	
2386	■



System products	Art. no.
Rofalin Acrylic	(2330)
Aqua OWF-68/tm Weather Protection Oil Finish [eco]	(7740)
Aqua OML-48/tm Medium Build Oil Stain [eco]	(7710)
Aqua VL-66/sm Venti-coat 3in1	(7090)
Aqua DL-65 Top PU	(7200)
Aqua MSL-45/sm Medium Build Stain UV+	(7130)
Aqua DSL-55 High Build Stain PU	(7220)
MSL-40/sm Medium Build Stain UV+	(7240)

# Restoration of wooden components

## General tips on use

If wooden components destroyed by insects or fungi cannot be stripped back and subsequently reinforced, the strength of the damaged substance can be increased again by treating it with Remmers Wood Strengthener. To do this, the cleaned surface is repeatedly coated with the agent until it is saturated. On the other hand, if it is necessary to restore the former compressive strength of components that have been removed (e.g. base points of posts or supports)

or to restore the original dimensions (e.g. in listed buildings), the removed wood substance can be replaced with Remmers wood substitutes.

To achieve better adhesion when using Epoxy Wood Substitute, pre-treatment with Epoxy Wood Strengthener is absolutely essential. Suitable Remmers wood coatings can then be used to match the colour.





WOOD RESTORATION

# Restoring contaminated wood



Wood that is contaminated with harmful substances such as PCP or lindane can be effectively masked with an independently tested system: in the first step, the pollutant is fixed in the wood, and in the second step it is completely sealed off so that it can no longer enter the indoor air.

**The benefits for you –  
the promise from us:**

- ✓ Restoration of wooden components for monuments and listed buildings
- ✓ Independently tested system for the remediation of contaminated wood

## Recommended products

### Products for restoring contaminated wood



#### PU Wood Strengthener

1K wood strengthener and pollutant fixer based on PU



#### Induline SW-910

End-grain wood protection / Masking contaminated wood

# PU Wood Strengthener

1K wood strengthener and pollutant fixer based on PU

<b>Range of use</b>	<ul style="list-style-type: none"> <li>■ For use on interior and exterior wood</li> <li>■ Wood and wood-based materials</li> <li>■ Wood strengthening: strengthening and stabilisation of wood surfaces suffering from fungal or insect attack</li> <li>■ Moisture protection for MDF and HDF panels</li> <li>■ Harmful substance blocking: masking woods containing lindane, DDT and PCP (for system use with Induline SW-910). Deep fixing of active ingredients in the wood to prevent further emissions of harmful substances into the air</li> </ul>
<b>Property profile</b>	<ul style="list-style-type: none"> <li>■ Water vapour diffusion open</li> <li>■ High penetration capacity thanks to low viscosity</li> <li>■ Blocks substances: dissolved at the wood surface, transported into the wood &amp; fixed there (WKL tested for system use)</li> </ul>
<b>Certificates/test standards</b>	<ul style="list-style-type: none"> <li>■ Application instructions for harmful substance blocking</li> <li>■ Test report for harmful substance blocking</li> </ul>
<b>Application / Tips on use</b>	<ul style="list-style-type: none"> <li>■ Brush application</li> <li>■ Apply an even coat of the material with a brush. Repeat the process wet-on-wet if necessary. Good ventilation must be ensured.</li> </ul>
<b>Application rate</b>	<ul style="list-style-type: none"> <li>■ 200 - 300 ml/m<sup>2</sup> depending on the substrate</li> </ul>
<b>Overcoating</b>	<ul style="list-style-type: none"> <li>■ After approx. 6 hours</li> </ul>

<b>Quantity per pallet</b>	<b>432</b>	<b>192</b>
<b>Packaging unit</b>	750 ml	2.5 l
	Tin canister	Tin canister
<b>Container code</b>	01	03
<b>Art. no.</b>		
clear	2379	■ ■

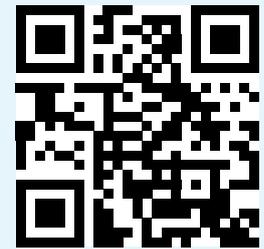


<b>System products</b>	<b>Art. no.</b>
Rofalin Acrylic	(2330)
Aqua DL-65 Top PU	(7200)
Aqua RG-27 Renovation Primer	(7146)
Aqua MSL-45/sm Medium Build Stain UV+	(7130)
Induline SW-910	(3777)

# Induline SW-910

End-grain wood protection / Masking contaminated wood

<b>Range of use</b>	<ul style="list-style-type: none"> <li>For use on interior and exterior wood</li> <li>Softwood and hardwood</li> <li>Dimensionally stable wood building elements: e.g. windows and doors</li> <li>Wood elements with limited dimensional stability: e.g. folding shutters, matchboarding, summerhouses</li> <li>Wood elements with no dimensional stability: e.g. fences, framework, carports, planking</li> <li>Moisture protection for cut surfaces and end-grain wood</li> <li>Edge coating and sealing for board materials (e.g. screen printing plates)</li> <li>Full-surface moisture protection for front door panels made of exterior grade MDF/Tricoya</li> <li>Full-surface protection of wood exposed to pollutants in indoor areas and in a system with PU Wood Strengthener</li> </ul>
<b>Property profile</b>	<ul style="list-style-type: none"> <li>Film-forming</li> <li>Repels water</li> <li>Elastic</li> <li>Inhibits diffusion</li> <li>Effective restriction of volume increase due to moisture in treated wood</li> <li>Can be overcoated with conventional coating systems</li> </ul>
<b>Certificates/test standards</b>	<ul style="list-style-type: none"> <li>Application instructions for harmful substance blocking</li> <li>Test report for harmful substance blocking</li> </ul>
<b>Application / Tips on use</b>	<ul style="list-style-type: none"> <li>By brush, roller, spraying</li> <li>Brush application: acrylic paintbrush</li> <li>Roller: microfibre paint roller</li> <li>Airless spraying: Nozzle: 0.28 – 0.33 mm Spraying pressure: 70 – 90 bar</li> <li>Airmix spraying: Nozzle: 0.28 – 0.33 mm Spraying pressure: 70 – 90 bar Air pressure: 1 – 2 bar</li> <li>Before use: non-resistant woods may need to be treated with a wood preservative*. Use a tinted primer, especially for stained surfaces. Sand the surface lightly after priming</li> </ul>
<b>Application rate</b>	<ul style="list-style-type: none"> <li>Approx. 100 ml/m<sup>2</sup> depending on the absorbency of the substrate</li> </ul>
<b>Overcoating</b>	<ul style="list-style-type: none"> <li>After approx. 2 hours</li> </ul>



System products	Art. no.
PU Wood Strengthener	(2379)



Quantity per pallet		300	200	22	1
Packaging unit		0.5 l	2.5 l	20 l	1000 l
		Plastic can	Tin bucket	Tin bucket	Plastic container
Container code		84	03	20	61
<b>Art. no.</b>					
clear	3777	■	■	■	■
special colours	3775		■	■	■

# Restoring wood surfaces contaminated with PCP and lindane

## General tips on use

The blocking layer consists of the deep fixing agent PU Wood Strengthenener and the subsequent barrier layer Induline SW-910. With the deep fixing agent PU Wood Strengthenener, the active substances on the wood surface are dissolved and penetrate back into the wood. The specially selected resin binds these to the wood cell, immobilising them.

With the subsequent alkaline barrier coating Induline SW-910, the active ingredients are further blocked and inactivated on the surface to prevent further outgassing. The barrier coating system forms an elastic, water-repellent film.

A slight change in the colour of the surface is possible, especially with light-coloured woods. This should be checked prior to full application. Depending on the condition of the wood, the deep fixing agent is applied once to the clean and dry wood surface using a brush. After a drying time of 24 hours, the barrier coating is applied once using a brush or roller.



# Product overview

IG-10 Impregnation Primer IT _____	08
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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

Remmers is one of the leading specialists for construction chemicals, wood paints and coatings, and industrial coatings. Founded in 1949 by Bernhard Remmers, we are an independent and owner-managed family business to this day. Our head office is located in the German town of Lönigen in the Lower Saxony region – this is where we have our roots. At the same time, we have an international presence with 18 subsidiaries.



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of products and  
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**≈ 1600**

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**Bernhard Remmers  
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**We get  
it done!**

**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.

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