

# Technical data sheet

**Allwetterlack**

**4502**

Colourless synthetic resin varnish for wood in indoor and outdoor areas, for use in DIY and trade

## PRODUCT DESCRIPTION

### General

Solvent-based, colourless synthetic resin topcoat for indoor and outdoor use with good resistance to weathering. Stand-out features of this product include fast drying, very good filling performance, optimal flow, good resistance to sagging and very good cream and grease resistance. Marine-grade varnish.

### Application area



For dimensionally stable timber components for exterior and interior use, such as e.g. wooden doors, garden furniture, table tops, beer tables and gates.

Protective lacquer for opaque KH lacquers or wood stains.

The product is not suitable for interior surfaces of furniture and cabinets due to possible odour nuisance.

## PROCESSING

### Processing instructions



- Please stir the product before use.
- The temperature of the product and object, and the room temperature must be at least + 5 °C.
- The optimal conditions for use are between 15 - 25 °C with a relative atmospheric humidity between 40 - 80 %.
- Do not process it under conditions of intense sunlight, rain, extremely high humidity, strong wind or pending frost.
- Resin flow cannot be avoided by the coating.
- Water-soluble wood extracts can be leached particularly by driving rain. This can be minimized by an all-over coating and additional sealing of the end grains.
- Any change in the processing sequence, environmental conditions, non-observance of instructions or the use of products not listed may have an unfavourable effect on the result.
- Please follow our **ARL 500 - Working guideline for coating non-dimensionally stable and limited dimensionally stable construction elements – General part.**
- Please follow our **ARL 505 - Working guideline for alkyd resin coatings/-glazes and oils.**

### Application technique



0-5% 7231



20% 8014

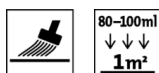
	Cup gun	Brushing	Rolling
Spraying nozzle Ø (mm)	1,8 - 2,0		-

1-0 IMC 4502 | 04/25 | replaces 0-1

ADLER-Werk Lackfabrik, A-6130 Schwaz

Fon: +43/5242/6922-190, Fax: +43/5242/6922-309, Mail: technical-support@adler-lacke.com

Our instructions are based on the current state of knowledge and are intended to advise the buyer/user to the best of our knowledge, but must be individually adapted to the areas of application and processing conditions. The buyer/user is responsible for deciding on the suitability and use of the supplied product, which is why we recommend that a sample be produced to check the suitability of the product. In all other respects, our General Terms and Conditions of Sale apply. All previous data sheets lose their validity with this edition. We reserve the right to make changes to container sizes, color shades and available gloss levels.



<b>Spraying pressure (bar)</b>	3 - 4	-	
<b>Diluent</b>	KH-Spritzverdünner 8014 (8014)	-	Adlerol-Terpentinölersatz (7231)
<b>Diluent amount added (%)</b>	20	-	0 - 5
<b>Applied quantity per application (ml/m²)</b>	80 - 100		

**Spraying is only allowed in spray booths complying with the VOC Directive.**

The shape and surface condition of the workpiece as well as the type of application influence the actual consumption. Accurate values for consumption must be obtained by applying trial coats in advance.

For good thorough drying, the recommended application quantities must be adhered to. Excessive layer thicknesses lead to a considerable drying delay!

### Drying times

(at 23 °C and 50 % rel. humidity)



Recoatable after	approx. 12 h
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The figures given above are reference values. The drying time depends on the type of substrate, coat thickness, temperature, air exchange and relative atmospheric humidity.

On types of woods rich in extracts (such as oak, iroko), drying may be delayed.

Lower temperatures and/or high level of atmospheric humidity can increase the drying time.

### Cleaning the working equipment



With Adlerol-Terpentinölersatz (7231) immediately after use.

## SUBSTRATE

### Type of substrate

Softwoods and hardwoods as well as plywood materials, which are suitable for the exterior, such as, for example, solid wooden boards, glued laminated timber (GLT or Glulam) and solid structural timber (SST).

### Substrate property

The substrate must be dry, clean, capable of holding the paint, free from separating substances such as grease, wax, silicone, resin etc. and free from wood dust, as well as tested for suitability for coating.

A prerequisite for ensuring long durability of the coating is to observe the basic principles of constructional wood preservation.

Please observe the additional documents:

- ÖNORM B 3430-1
- ÖNORM B 2230-1
- DIN 18363
- BFS data sheet no. 18.

### Wood moisture

**Hardwoods:** 12 ± 2 %  
**Softwoods:** 15 ± 2 %

### Substrate preparation

**Wood and wood-based materials:**

For optimal durability we recommend to sand smooth wooden surfaces with grain size 80 – 120 in the direction of the fibre, clean thoroughly and remove wood extractives such as, for example, resins and resin pockets. Round off any sharp edges.

Clean resin-rich woods and exotic woods with drying retardants with Nitro-Verdünner 8017 (8017).

**Wood sanding:** Grit size 120

**Old coatings:**

Sand and/or leach intact old coating. Remove old coatings that cannot be recoated.

Treat algae, green deposits or mould in outdoor areas with Aviva Fungisan (8308).

## COATING SYSTEM

### General

The following coating systems are exemplary.

### Impregnation

**Wood and wood-based materials in outdoors areas**

If necessary, impregnate outdoors once with Pullex Imprägnier-Grund (4436) (applies to timbers of durability class 3-5 according to EN 350) to protect against blue stain, fungal decay and insect infestation.

Intermediate drying: approx. 12 hour(s)

Use wood preservatives safely. Always read the label and observe the respective technical data sheets of the products before use.

Please follow our **ARL 056 - Working guideline for the use of wood preservatives.**

### Primer coat

1 x Allwetterlack (4502)

Intermediate drying: approx. 12 hour(s)

### Intermediate sanding



Grit size 240

Remove sanding dust.

### Finishing coat

1 x Allwetterlack (4502)

## MAINTENANCE

### Care

The durability depends on several factors: these include particularly the type of weathering, constructive protection, mechanical stress and the choice of colour applied. To obtain long durability, regular inspection, maintenance and, if necessary, repair measures are necessary.

If required, remove dust and dirt from the still intact areas and paint 1 x using Allwetterlack (4502).

Shorter renovation intervals must be expected for colourless exterior coatings. Increased maintenance is recommended. Damage should be repaired as quickly as possible to prevent greying.

On deep-pored hardwoods, e.g. Oak, Iroko, shorter maintenance intervals must be expected.

### Maintenance

Please follow our **ARL 504 - Working guideline for coating non-dimensionally stable and limited dimensionally stable construction elements - Maintenance and Repair.**

## ORDERING INFORMATION

**Size of trading unit** 375 ml, 750 ml, 2.5 l

**Colour shades / Glosslevels** **Standard colour(s):**  
Farblos, Glänzend (4502050252)  
Farblos, Matt (4502050253)  
Attention: Slightly yellowish inherent colour.

**Supplementary products** Adlerol-Terpentinölersatz (7231)  
Aviva Fungisan (8308)  
KH-Spritzverdünner 8014 (8014)  
Nitro-Verdünner 8017 (8017)  
Pullex Imprägnier-Grund (4436)  
Please refer to the corresponding technical data sheets of the products.

## FURTHER DETAILS

### Durability / storage



Min. 5 year(s) in the original sealed containers.

Make sure the product is protected against moisture, direct sunlight, frost and high temperatures (above 30 °C).

We recommend to transfer the contents of open containers to smaller ones in order to prevent gelling / skin formation.

Close opened containers well and use up the content as soon as possible.

### Technical specifications

VOC content of the ready-to-use mixture: Limit value according to Directive 2004/42/EC for Allwetterlack (Cat A/e): 400 g/l.  
Allwetterlack contains a maximum of 390 g/l VOC.

### Giscode

BSL20

### Declaration of ingredients according to VdL-RL 01

alkyd resins / aliphatic compounds / surface additive / glycol ether / wetting agent / drying agents (siccatives) / light stabilisers / anti-skin agent

Contains phthalic anhydride. May cause allergic reactions.

**Information for allergy sufferers under telephone no. +43 5242 6922-713.**

### Safety information



When using cloths that have been soaked with oxidative drying products, there is a risk of spontaneous combustion! Spread soaked cloths out and let them dry; it is necessary to store them in sealed metal containers or under water.

Using the product in spraying booths, which are contaminated with nitrocellulose-containing spray dust, is prohibited owing to the risk of self-ignition!

The inhalation of paint aerosols during spray application must generally be avoided. This is ensured by the proper use of a respirator (combination filter A2/P2).

When sanding, use at least a P2 dust filter as personal safety equipment to protect against abrasive and wood dust. In case of hardwood (especially for Beech, Oak) a dust filter P3 is recommended.

Further information on the subject of safety during transport, storage and handling as well as disposal can be found in the relevant safety data sheet. The current version can be accessed on the Internet at [www.adler-lacke.com](http://www.adler-lacke.com).