Pache SARL - 64 Route de Gravin, 74300 Magland
04 50 89 57 17 contact@pache-adler.fr
www.pache-adler.fr

Technical data sheet

Paint runs through our veins.

Protector-Plus 4401

Solvent-based **impregnating glaze with very good water repellency** for industrial and professional use

PRODUCT DESCRIPTION

General

Colourless impregnating glaze for exterior wood. The product is characterised by long-lasting water repellency, excellent water protection and very good UV protection. The natural yellowing of the wood is greatly reduced. The product has a low odour due to the use of aromatic-free white spirit as a solvent.

Special properties and standards

- The coating is protected against blue stain and mould by a biocidal active substance.

  Active substance:
  2.4 g/kg (0.24 %) 3-Iod-2-propinylbutylcarbamat

Application area

For non-dimensionally stable and limited dimensionally stable timber components for exterior use, such as e.g. wooden houses, timber cladding, canopies, profile boards, window shutters, balconies, gates.

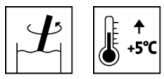
Particularly suitable for the wood types spruce and larch.

In the case of highly resinous Siberian larch and cedar, the durability of the coating system may be reduced on planed wood.

We recommend Pullex Bodenöl (4402) for terrace floors and landing stages.

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 10 - 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.
- For new timber components we recommend an all-over coating.
- 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.
- Residual plaster (high level of alkalinity) or ferrous dust (rust formation) may lead to black discoloration on larch wood and other types of wood rich in extracts.
- 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. Deviations lead to film and adhesion

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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.

problems as well as to impairments with regard to weathering and color stability.

- 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

	Immersion	Brushing
Applied quantity per application (ml/m²)	80 - 100	

The product is ready to use.

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 hour(s)

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.

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

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

Wood moisture

Softwoods: 15 ± 2 %

Substrate preparation

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).

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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

Impregnation

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 Protector-Plus (4401)

Intermediate drying: approx. 12 hour(s)

Finishing coat

1 x Protector-Plus (4401)

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 Protector-Plus (4401).

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.

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

2.5 l; 20 l

Colour shades / Glosslevels

Standard colour(s):
Farblos (4401000200)

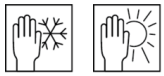
Supplementary products

Adlerol-Terpentinölersatz (7231)
Aviva Fungisan (8308)
Nitro-Verdünner 8017 (8017)
Pullex Imprägnier-Grund (4436)

Please refer to the corresponding technical data sheets of the products.

FURTHER DETAILS

Durability / storage



Min. 1 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.

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	Close opened containers well and use up the content as soon as possible.
Technical specifications	VOC content of the ready-to-use mixture: EU limit for Protector-Plus (Cat A/ f): 700 g/l. Protector-Plus contains maximum 530 g/l VOC.
Giscode	BSL40
Declaration of ingredients according to VdL-RL 01	alkyd resins / aliphatic compounds / surface additve / glycol ether / wetting agent / drying agents (siccatives) / light stabilisers / anti-skin agent / 3-Iod-2-propinylbutylcarbamat Contains 3-iodo-2-propynyl butylcarbamate. 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. When sanding, use at least a P2 dust filter as personal safety equipment to protect against abrasive and wood dust. 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.**

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