

KH-Spritzgrund

4509

Solvent-based base coat/intermediate coat for **industry and trade**

PRODUCT DESCRIPTION

Product numbers

4509050253

General

Solvent-based intermediate coat formulated with alkyd resin with very good pore wetting, grain accentuation and transparency. Good drying and good sandability. Especially good insulating effect for active substances in the wood.

Special properties and standards

Reinforces the wood substrate and creates strong hydrophobisation (water repellent effect).

Application area

Wooden structural elements with dimensional stability in outdoor and indoor areas, for high-quality exterior doors made of wood.



PROCESSING

Processing instructions



- Please stir the product before use.
- The temperature of the product and object, and the room temperature must be at least +10 °C.
- The optimal conditions for use are between 15 - 25 °C with a relative atmospheric humidity between 40 - 80 %.
- 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 problems as well as to impairments with regard to weathering and color stability.
- Please follow our **ARL 505 - Working guideline for alkyd resin coatings/-glazes and oils.**

Application technique



30% 8014



30% 8014

160 -
190 g
↓
1m²

	Airless	Airless air-supported (Airmix®, Aircoat, etc.)	Cup gun
Spraying nozzle Ø (mm)		0,23	1,6 - 2,2
Spray nozzle (Ø inch)		0,09	-
Spraying pressure (bar)		80 - 100	1,5
Vaporizer Air (bar)	-	0,5 - 1,5	-

Spraying distance (cm)	25
Diluent	KH-Spritzverdünner (8014)
Diluent amount added (%)	30
Applied quantity per application (g/m²)	160 - 190
Wet film (µm)	175 - 225
Dry film complete coating system (µm)	80 - 120

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)



Tack-free	approx. 5 hour(s)
Sandable	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.

Avoid direct sunlight!

Cleaning the working equipment



8014

With KH-Spritzverdünner (8014) immediately after use.

SUBSTRATE

Type of substrate

Hardwoods

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.

Wood moisture

13 % ± 2 %

Substrate preparation

Sand the wood using grit size 120 or 150, if possible shortly before applying the coating, for optimal adhesion and drying and even colour distribution!

COATING SYSTEM

General

The following coating systems are exemplary.

Impregnation

If protection against blue stain and fungal attacks is required in outdoor areas, impregnate your surface 1 x with Aquawood Primo TIM (5425) (applies to woods in Durability Class 3 – 5 in accordance with EN 350).

Intermediate drying time: approx. 4 hours

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**.

Intermediate sanding 	Grit size 180 is required for even colour distribution! Remove sanding dust.
Primer coat	1 x Protor-Primo (4521) Intermediate drying: approx. 16 hours
Intermediate coat	1 x KH-Spritzgrund (4509) Intermediate drying: approx. 16 hours
Intermediate sanding 	Grit size 220 – 240 Remove sanding dust.
Finishing coat	1 x Aquawood Finapro 20 Natur für Haustüren, wie 53567 (5101070273) thinned with 5 - 10 % water
For front doors	To achieve optimal chemical and mechanical resistance, an additional application of Aquawood Protect (5128) (colourless two-component clear coating) is recommended, or alternatively the use of the Aquawood Protor or Aquawood Dura system. Deviations from this system recommendation may lead to reduced surface resistance.

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. Annual cleaning with Top-Cleaner (7208) and maintenance with Top-Care (7227) in the package with Windoor Care-Set (7229). Please follow our ARL 304 - Working guideline for coating dimensionally stable and limited dimensionally stable construction elements - Maintenance and repair.
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ORDERING INFORMATION

Size of trading unit	5 l, 25 l
Colour shades / Glosslevels	Standard colour(s): Farblos, Matt (4509050253)
Supplementary products	Aquawood Finapro 20 Natur für Haustüren, wie 53567 (5101070273) KH-Spritzverdünner 8014 (8014) Protor-Primo (4521) 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.

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 KH-Spritzgrund (Cat A/h): 750 g/l.
KH-Spritzgrund contains a maximum of 580 g/l VOC.

Giscode

BSL40

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!

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.