

Brilliantalkyd

4503

Glossy synthetic resin topcoat for interior and exterior use on wood and metal for DIY and trade

PRODUCT DESCRIPTION

General

Suitable for universal use, glossy, solvent-based synthetic resin topcoat. Good resistance to weathering and yellowing and very good gloss retention. Stand-out features of this product include good drying properties, good scratch resistance, very good coverage and filling performance, optimal flow and good sag resistance. Environmentally friendly due to a higher solids content and the use of white spirits that are free from aromatic hydrocarbons as solvents.

Application area



For the coating of wood and metal indoors and outdoors.

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

For dimensionally stable timber components for exterior and interior use, such as e.g. wooden windows and front doors.

For non-dimensionally stable timber components in the outdoor area we recommend for example Pullex Color (4403) or Pullex Aqua-Color (5325).

For sheet metal roofs and steel constructions with extreme weathering we recommend Ferro GSX (4505). Coat horizontal sheet metal outdoors with Ferrocolor (4506) or Ferro GSX (4505).

We recommend ADLER Histo-Base (5497) / ADLER Histo-Protect (5097) for the restoration of oil paints and old, historic wooden windows and front doors.

PROCESSING

Processing instructions



- **Spraying is only allowed in spray booths complying with the VOC Directive.**
- 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 %.
- The color shade, compatibility and adhesion to the substrate must be checked by creating sample panels.
- 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.

Application technique

20% 8014



	Cup gun	Brushing	Rolling
Spraying nozzle Ø (mm)	1,8 - 2,0	-	-
Spraying pressure (bar)	2,0 - 2,5	-	-
Diluent	KH-Spritzverdünnener 8014 (8014)	-	-
Diluent amount added (%)	20	-	-
Applied quantity per application (ml/m²)	80 - 100	60 - 80	

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.

Drying times

(at 23 °C and 50 % rel. humidity)



Dust-dry (ISO 1517)	approx. 2 - 3 h
Tack-free	approx. 6 hour(s)
Recoatible	approx. 12 h
Final hardness	ca. 7 day(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.

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

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

Avoid direct sunlight!

Cleaning the working equipment

7231

With Adlerol-Terpentinölersatz (7231) or Pinselreiniger (8079) immediately after use.

To remove dried product residues we recommend using Abbeizer Express (8313).

SUBSTRATE**Type of substrate**

Wood, wooden materials, metal as well as hard PVC

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.

Remove old coatings that cannot be recoated.

Please observe the additional documents:

- ÖNORM B 2230-2
- DIN 18363
- ÖNORM B 3430-1
- Current BFS information sheets

Wood moisture

Hardwoods: 12 ± 2 %

Softwoods: 15 ± 2 %

Substrate preparation

Wood and wood-based materials:

Break sharp edges and remove any wood extractives such as resins and resin galls.

Iron and steel:

Remove rust down to bare metal. Thoroughly remove greasy or oily impurities using Entfetter (7233).

Zinc, aluminium and other non-ferrous metals:

Sand until matt with abrasive fleece and Entfetter (7233).

Hard PVC and coatable plastics:

Sand until matt with abrasive fleece and Entfetter (7233).

Old coatings:

Sand intact old coatings with grit size 120 and clean.

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.

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

Wood and wood-based materials:

1 x Alkyd-Grund (4501)

Iron and steel:

Indoors: 1 x Metallgrund (4512) or Unigrund LM (4516)

Outdoors: 2 x Metallgrund (4512) or Unigrund LM (4516)

Zinc:

2 x Unigrund LM (4516) or 2K-Epoxy-Grund (5604)

Aluminium and other non-ferrous metals:

1 x Unigrund LM (4516) or 2K-Epoxy-Grund (5604)

Sand anodised aluminium and stainless steel very well until matt and prime within 60 minutes with 2K-Epoxy-Grund (5604).

Plastics:

1 x Unigrund LM (4516) or 2K-Epoxy-Grund (5604)

Due to the large number of plastic materials, an adhesion test is recommended.

Old coatings:

The compatibility of the coating must be checked on intact old coatings.

Make a sample and check adhesion.

For powder coatings we generally recommend priming with 2K-Epoxy-Grund (5604).

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

Intermediate sanding



Grit size 240 – 280

Remove sanding dust.

Intermediate coat

1 x Brilliantalkyd (4503)

Intermediate drying time: approx. 12 hours

Finishing coat	1 x Brilliantalkyd (4503)
MAINTENANCE	
Care	<p>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.</p> <p>If required, remove dust and dirt from the still intact areas and paint 1 x using Brilliantalkyd (4503).</p> <p>When renovating the outer surface of dimensionally stable wooden construction elements (windows and front doors), the coating on the inside must be checked and, if necessary, coated with the same system.</p>
Maintenance	<p>When renovating the outer surface of dimensionally stable wooden construction elements (windows and front doors), the coating on the inside must be checked and, if necessary, coated with the same system.</p> <p>Please follow our ARL 504 - Working guideline for coating non-dimensionally stable and limited dimensionally stable construction elements - Maintenance and Repair.</p>
ORDERING INFORMATION	
Size of trading unit	125 ml, 375 ml, 750 ml, 2.5 l
Colour shades / Glosslevels	<p>Standard colour(s): W10 Weiß, tönbar (52301) RAL1021 Rapsgeilb (4503001021) RAL3020 Verkehrsrot (4503003020) RAL3000 Feuerrot (4503003000) RAL5010 Enzianblau (4503005010) RAL6002 Laubgrün (4503006002) RAL6005 Moosgrün (4503006005) RAL8011 Nussbraun (4503008011) RAL9005 Tiefschwarz (4503009005) RAL7001 Silbergrau (4503007001) RAL7035 Lichtgrau (4503007035) RAL9001 Cremeweiß (4503009001)</p> <p>Other colour shades can be obtained using the ADLER colour mixing system Color4You.</p> <p>Base paint(s): Brilliantalkyd W10 Weiß, tönbar (52301) Brilliantalkyd Basis W15 (52300) Brilliantalkyd Basis W20 (4503000020) Brilliantalkyd Basis W30 (52304) Brilliantalkyd Y10 52 Gelb (4503082511) Brilliantalkyd R20 54 Rot (4503082513)</p> <p>In order to ensure uniformity of the colour shade, use only material with the same batch number on a given surface.</p> <p>It is recommended to prepare a trial colour sample on the original substrate using the coating system selected in order to assess the final colour shade.</p> <p>White and shades derived from white tend to change the colour tone in artificial lighting. This appearance typical of synthetic resin paints can be reinforced by dark storage and ammonia-containing air.</p> <p>Depending on the system, brilliant and intensive color shades may have a lower covering power.</p> <p>Please consume blended products within 3 months.</p>
Color4You	

Please observe our **ARL 800- Working guideline for working (including care and maintenance) with ADLER Mix, PUR Mix and Color4You dosing machines.**

Supplementary products

2K-Epoxy-Grund (5604)
 Abbeizer Express (8313)
 ADLER Histo-Base (5497)
 ADLER Histo-Protect (5097)
 Adlerol-Terpentinölersatz (7231)
 Alkyd-Grund (4501)
 Entfetter (7233)
 Ferro GSX (4505)
 Ferrocolor (4506)
 KH-Spritzverdünner 8014 (8014)
 Metallgrund (4512)
 Pinselreiniger (8079)
 Pullex Imprägnier-Grund (4436)
 Unigrund LM (4516)
 Pullex Color (4403)
 Pullex Aqua-Color (5325)

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 Brilliantalkyd (Cat A/d): 300 g/l.
 Brilliantalkyd contains a maximum of 290 g/l VOC.

Giscode

BSL20

Declaration of ingredients according to VdL-RL 01

alkyd resins / inorganic white and coloured pigments / organic pigments / mineral agents / anti-corrosion pigments / aliphatic compounds / wetting agent / surface additive / drying agents (siccatives)

Safety information



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).

During sanding use P2/ P3 dust filter. Do not inhale spray mist. Use combination filter A2 / P2 and safety goggles.

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.