

Capacryl PU-Vorlack

Water-thinnable, polyurethane-acrylic based priming varnish for wood and primed substrates. Easy to sandpaper. For exterior and interior use.



Product Description

Field of Application	For intermediate coats with filling capacity and a good flow on dimensionally stable wooden parts, primed metals, filler-treated and sandpapered surfaces and adherent, sound existing coatings of paints and enamels before applying Capacryl PU-Gloss/ Capacryl PU-Satin or Capalac Aqua PU-Alkyd enamels.
Material Properties	<ul style="list-style-type: none"> ■ Water-thinnable (dilutable with tap water). ■ Low odour. ■ Easy and elegant application. ■ High opacity (hiding/covering power). ■ Easy to sandpaper, comparable with an alkyd resin priming varnish. ■ Diffusion-capable. ■ Good filling properties. ■ Promotes the adhesion of subsequent finishing. ■ Quick-drying. ■ Suitable for children toys according to DIN EN 71-3. ■ Recoatable with water-thinnable acrylic and alkyd resin enamels and with solvent-based alkyd resin enamels.
Material Base / Vehicle	Polyurethane-acrylic dispersion
Packaging/Package Size	<ul style="list-style-type: none"> ■ White: 375 ml, 750 ml; 2.5 litres and 10 litres ■ ColorExpress: 350 ml, 700 ml, 2.4 litres and 9.6 litres
Colours	White Further tints are available via ColorExpress tinting machine (Capamix). On intense colours the colour shade may slightly deviate in favour of achieving better opacity.
Gloss Level	Matt
Storage	Cool, but frost-free. Shelf life of tightly closed, original packaging: 12 month.
Technical Data	<ul style="list-style-type: none"> ■ Density: Approx. 1.45 g/cm³



Application

Suitable Substrates

Primed, dimensionally stable wooden parts, metals, and rigid PVC. The substrate must be clean, sound/stable, dry, and free from all substances that may prevent good adhesion. The moisture content must not exceed 13% for dimensionally stable wood.

Substrate Preparation

Wooden parts:

Sand surfaces in fibre direction, clean thoroughly, remove exuding substances, e.g. resins and resin galls, cut sharp edges (see BFS Data Sheet No. 18).

Iron, steel:

Derust according to industry standard SA 2 ½ (blasting) or ST3 (mechanically) according to DIN EN ISO 12 944-4.

Zinc (galvanised substrates), rigid PVC:

Wash with ammoniacal wetting agent using an abrasive pad as per BFS Data Sheets No. 5 and No. 22.

Aluminium (no eloxadized surfaces), copper:

Clean with nitro-thinner or phosphoric-acidal sol. using an abrasive pad as per BFS No. 6.

Existing paint coatings:

Slightly sandpaper the surface and/or treat with alkali. Remove unsound existing coatings.

Method of Application

Guidelines for Spray Application:

	Ø Nozzle	Spray Pressure	Air Pressure	Dilution
Airless	0.011 – 0.015 inch	200 bar	–	max. 5 %
Airmix/Aircoat	0.011 – 0.015 inch	120 bar	2.5 bar	max. 5 %
Niederdruck	1.8 – 2.2 mm	–	approx. 0.5 bar	5%–15 %
Hochdruck	2.0 – 2.5 mm	–	2 – 3 bar	5%–15 %

Application:

Capacryl PU-Vorlack can be applied either with brush, roller or spraying equipment. Stir well before use and dilute with max. 5% to 15% of tap (potable) water, if required.

Use Orelmix brushes for brush application. For manual large-area application use a short pile (textured) polyamide (nylon) roller and immediately treat with a fine-porous foam roller or Orelmix brush.

Tool size should match the size of surfaces to be treated, thus allowing continuously surface painting and uniform finishing in one work step (also see supplementary application information for PU enamel system).

Surface Coating System

Substrate	Use	Substrate Preparation	Impregnation	Priming Coat	Intermediate Coat	Finishing Coat
Wood, derived materials	interior	sanding / cleaning	–	Capacryl Holz-IsoGrund ¹⁾	Capacryl PU-Vorlack ²⁾	Capacryl PU-Gloss / PU-Satin or Capalac Aqua PU-Alkyd Gloss / Satin ³⁾
Wood, stable in dimensions	exterior	BFS Data Sheet No. 18	CapacrylHolzschutz-Grund	Capacryl Holz-IsoGrund ¹⁾		
Iron, steel	interior	derusting / cleaning	–	Capalac AllGrund		
	exterior	derusting / cleaning	–	2 x Capalac AllGrund		
Zinc (galvanised substrates)	interior/ exterior	BFS Data Sheet No. 5	–	Capacryl Haftprimer		
Aluminium / copper	interior/ exterior	BFS Data Sheet No. 6	–	Capacryl Haftprimer		
Rigid PVC	interior/ exterior	BFS Data Sheet No. 22	–	Capacryl Haftprimer		
Sound existing paint coatings	interior/ exterior	sanding / treat with alkali(lixiviating)	Prepare and prime defects according to the respective substrate			

* Apply two intermediate coats on dimensionally stable wooden parts according to BFS Data Sheet No. 18.

1. Always apply Capacryl Holz-IsoGrund on wood containing water-soluble, discolouring substances (2 x on knots)
2. Intermediate coat, tinted to match the finishing coat in shade. For reddish, yellowish or orange shades with low opacity/hiding power a differing colour tint is mixed via ColorExpress, providing for a better hiding power of the finishing coat. This colour shade may slightly deviate from the selected colour shade in favour of achieving better opacity.
3. Tints with poor opacity (e.g. yellow/red/orange shades) may require an additional coat.

Consumption

Approx. 100 – 130 ml/m² per coat.
The rate of consumption is approximate and may vary depending on the substrate and substrate condition. The exact rate of consumption is best established by a trial application.

Application Conditions

Min. 8 °C for material, substrate and ambient air.

Drying/Drying Time

At 20 °C, 65% relative humidity	dust-dry	recoatable	thoroughly dry
after hours	1–2	10–12	48

Lower temperatures and higher humidity extend the drying time.

Tool Cleaning

Immediately after use with water.

Advice

Please Note (Status as at Date of Publication)

Keep out of reach of children. In case of spray application: Do not breathe spray dust. Ventilate well during application and drying period. In case of contact with eyes or skin, rinse immediately with plenty of water. Do not empty into drains, water courses and onto the ground.
Further information: See Material Safety Data Sheets.

Disposal

Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities. Particular attention should be made to removing wastage from site in compliance with standard construction site procedures. In Germany: Only completely emptied containers should be given for recycling. Dispose containers with residues of liquid material as remnants of water-based paints and dried material as hardened paints waste or via domestic waste.

EU limit value for the VOC content

of this product (category A/d): 130 g/l (2010). This product contains max. 130 g/l VOC.

Product Code Paints and Enamels

M-LW01

Substances of Content - Declaration

Substances of Content · Declaration to VdL-RL01: Polyurethane-/polyacrylate resin, titanium dioxide, silicates, calcium carbonate, water, glycols, ester alcohol, additives, preservative.

Further Details

See Material Safety Data Sheets.

Customer Service Centre

Tel.: (+49) 0 61 54 / 71 17 10
Fax: (+49) 0 61 54 / 71 17 11
e-mail: kundenservicecenter@caparol.de

International Distribution: Please see www.caparol.com

Technical Information No. 053 · Issue: July 2011

All suggestions and application instructions herein are based on our latest technical experience. Due to the wide variety of individual project conditions, we cannot be held responsible for their content. These instructions do not release the purchaser/ applicator from his responsibility to determine the suitability of the product in consideration of the project characteristics. These instructions are to be considered void when a new edition is released. Our general conditions of sale and delivery in their latest edition apply. This document is a translation of our German Technical Information No. 053 · Capacryl PU-Vorlack · Issued: July 2010

DAW International Business: **Deutsche Amphibolin-Werke von Robert Murjahn Stiftung & Co KG** · P.O.B. 1264 · D-64369 Ober-Ramstadt · Tel. +49 6154 71-1274
Fax +49 6154 71-1264 · E-mail export@daw.de · Internet www.caparol.com