

Capacryl PU-Vorlack

Water-dilutable, polyurethane-acrylic based priming varnish for wood and primed substrates. Excellent sanding properties. For exterior and interior use.



Product Description

Field of Application	Undercoating varnish for filling intermediate coats with a good flow on dimensionally stable wooden parts, primed metals, filler-treated and sanded surfaces. Also suitable for adherent, stable existing coatings of paint and enamel before applying Capacryl PU-Gloss/Satin or Capalac Aqua PU-Alkyd.
Material Properties	<ul style="list-style-type: none"> ■ Water-dilutable. ■ Low odour. ■ Easy and elegant application. ■ High opacity (hiding/covering power). ■ Easy to sand, like an alkyd resin priming varnish. ■ Diffusion-capable. ■ Good filling properties. ■ Promotes the adhesion of subsequent finishing. ■ Fast-drying. ■ Suitable for children toys according to DIN EN 71-3. ■ Recoatable with water-dilutable (waterborne) acrylic and alkyd resin enamels and with solvent-based alkyd resin enamels.
Material Base / Vehicle	Polyurethane-acrylic dispersion (emulsion)
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	<p>White.</p> <p>Capacryl PU-Vorlack ist tintable via the ColorExpress (Capamix) tinting & mixing machine system.</p> <p>When applying colours with low opacity, like Red, Orange or Yellow, it is advisable to apply one priming coat using the matching colour shade of our Priming System. Suitable Priming System colours are available via the ColorExpress tinting technique.</p>
Gloss Level	Matt
Storage	<p>Keep in a cool, but frost-free place.</p> <p>Shelf life of tightly closed, original packaging: 12 months.</p>
Technical Data	<ul style="list-style-type: none"> ■ Density: Approx. 1.45 g/cm³



Suitability according to
Technical Information No. 606
Definition of Application Areas

Interior 1	Interior 2	Interior 3	Exterior 1	Exterior 2
+	+	+	+	+
(-) inapplicable / (○) of limited suitability / (+) unsuitable				

Application

Suitable Substrates

Primed, dimensionally stable wood component parts, metals, and rigid/unplasticized PVC. Substrates must be clean, sound/stable, dry, and free from all substances that may prevent good adhesion. Maximum permissible wood moisture content (WMC) of dimensionally stable wood: 13 %.

Substrate Preparation

Wooden Parts:

Sand/grind surfaces in fibre direction, clean thoroughly, remove seeping wood ingredients/contents/extractives, e.g. natural resin/rosin and pitch/resin pockets, cut sharp edges (Germany: See BFS Data Sheet No. 18).

Iron, Steel:

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

Zinc (Galvanised Substrates), Rigid/Unplasticized PVC:

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

Aluminium (must not be anodized), Copper:

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

Existing Paint Coatings:

Slightly sand the surface and/or treat with alkali. Remove unstable 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 %
Low pressure	1.8 – 2.2 mm	–	approx. 0.5 bar	5 % – 15 %
High pressure	2.0 – 2.5 mm	–	2 – 3 bar	5 % – 15 %

Application:

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

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

Tool size should match the size of surfaces to be treated, thus allowing efficient surface painting and uniform finishing (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		
Stable 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, as per BFS Data Sheet No. 18.

- 1) Always apply Capacryl Holz-IsoGrund on wood with water-soluble, discolouring wood ingredients (2 x on knots).
 - 2) Intermediate coat, tinted to match the finishing coat in shade. For reddish, yellowish or orange shades with low opacity a suitable colour is mixed via ColorExpress. This colour slightly deviates from the selected colour providing for a better hiding power of the finishing coat.
 - 3) Colour shades with low opacity (e.g. yellow/red/orange) may require an additional coat.
- Note: Adhesion must be tested in advance for powder coatings, coil coatings and other critical/problematic substrates by trial application.

Consumption

Approx. 100 – 130 ml/m² per coat.
Consumption is a reference value and may vary, depending on the substrate and its condition. Determine the exact amount of material required by coating a test area on site.

Application Conditions

Lower Temperature Limit for Application and Drying:
Min. 8 °C for product, substrate and ambient air.

Drying/Drying Time

At 20 °C, 65 % relative humidity	Dust Dry	Recoatable	Thoroughly Dry
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 from children. Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the product. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Do not allow product to enter drains, waterways or soil. Clean utensils immediately after use with soap and water. Use P2 dust filter for grinding. Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

Further information: See Material Safety Data Sheet (MSDS).

Contains: Methylisothiazolinone, Benzisothiazolinone. German hotline for persons with allergy to Isothiazolinone: 0180 / 5308928 (0.14 € per minute from German landline, mobile service max. 0.42 € per minute).

Contains: 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

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 empty containers should be handed in for recycling. Dispose containers with residues of liquid product via waste collection point accepting old paints and enamels. Dispose dried/hardened product residues as construction site/demolition/municipal or 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 (Germany)

Substances of Content - Declaration

Declaration to VdL-RL01: Polyurethane-/polyacrylate resin, titanium dioxide, silicates, calcium carbonate, water, glycols, ester alcohol, additives, preservative (Methylisothiazolinone, Benzisothiazolinone).

Customer Service Centre

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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: February 2014