

# Capacryl PU-Satin NAST

High-grade, scratch resistant and shock-proof polyurethane-acrylic enamel for exterior and interior use.  
 NAST quality (Practically mist-free spray technology).



## Product Description

### Field of Application

Suitable for high-grade intermediate and finishing coats on primed, dimensionally stable wood component parts, primed metals and unplasticized/rigid PVC, outdoors and indoors. Particularly suitable for nearly mist-free spray application, when using the Caparol Frontend nozzle and spraying equipment as follows:

Wagner XVLP FinishControl 6500 TS  
 Wagner XVLP FinishControl 5000  
 Titan Focus 700

Please note:  
 Do not use on heating systems to avoid yellowing (use Capacryl Heizkörperlack instead).

Explanation: NAST / German term: **Nebelarme Spritz-Technologie** = Spray technology with low spray mist (dust/fog) formation

### Material Properties

- Water-dilutable.
- Low odour.
- Nearly mist-free spray application is possible.
- Non-blocking.
- High scratch resistance and shock strength.
- Diffusion-capable.
- Resistant to normal household detergents.
- Wet scrub resistance class according to DIN EN 13300: Class 1 (corresponds to "scrub resistant" as per German standard DIN 53778).
- Suitable for children toys as per DIN EN 71-3.
- Resistant to disinfectants.

### Material Base / Vehicle

Polyurethane-acrylic dispersion/emulsion

### Packaging/Package Size

- **White (Weiß):**  
750 ml, 2.5 litres
- **ColorExpress:**  
700 ml, 2.4 litres

### Colours

**White.**

### Colour Stability as per German BFS-Merkblatt (Data Sheet) No. 26:

Binder: Class A  
 Pigmentation: Group 1

### Gloss Level

Silk-matt/semi-gloss (mid sheen; velvet or eggshell-like finish)

### Storage

Keep in a cool, but frost-free place.  
 Shelf life: 12 months in original, tightly closed container.



Technical Data

Density: Approx. 1.3 g/cm<sup>2</sup>

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 / (+) suitable				

## Application

Suitable Substrates

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

Substrate Preparation

**Wooden Parts:**

Sand the surface in fibre direction, clean thoroughly, remove all seeping wood contents, e.g. resins and resin galls and cut sharp edges (see BFS Data Sheet No. 18).

**Iron, Steel:**

Derust according to industry standard SA 2½ (blasting) or ST3 (mechanically) according to DIN EN ISO 12 944-4.

**Zinc (Galvanised Substrates), Unplasticized/Rigid PVC:**

Wash with light ammonia solution using a sanding pad as per BFS Data Sheets Nos. 5 and 22.

**Aluminium, Copper:**

Clean with nitro-thinner (diluent for cell lacquers) or phosphoric acid solution using a sanding pad as per BFS Data Sheet No. 6.

**Existing Paint Coatings:**

Sand the surface and/or treat with alkaline solution. Remove unstable existing coatings.

Method of Application

**Capacryl PU-Satin NAST has been developed for use with the below mentioned special equipment to ensure a nearly mist-free spray application. The product cannot be applied via paint brush or roller.**

**Guidelines for Spray Application:**

Suitable Spray Equipment	Nozzle/Frontend	Adjustment Quantity of Material	Adjustment Quantity of Air	Dilution
Wagner XVLP FinishControl 6500 TS*	Caparol NAST	8 - 9	2/3	undiluted
Wagner XVLP FinishControl 5000	Caparol NAST	8 - 9	2/3	undiluted
Titan Focus 700	Caparol NAST	8 - 9	2/3	undiluted

\* Do not heat the product when spraying with Wagner XVLP FinishControl 6500 TS!

**Note:**

Capacryl PU-Satin NAST is adjusted for use with the mentioned spray equipment and special nozzle Caparol NAST-Frontend. Only this combination of material and equipment enable a nearly mist-free spray application.

**Spray Technique:**

Adjustment for coating surfaces: "Flachstrahl" (flat jet). Spray slowly lengthwise with an overlap of min. 50 % and in a spray distance of 15 cm, applying wet-on-wet.

Do not apply cross-coats!

Allow to dry and apply a second coat in the same manner, if necessary.

## Surface Coating System

Substrate	Use	Substrate Preparation	Impregnation	Priming	Intermediate Coat	Finishing Coat
Wood, derived timber products	interior	sanding/cleaning	–	Capacryl Holz-IsoGrund <sup>1)</sup>	Capacryl PU-Vorlack or Capacryl PU-Satin or Capacryl PU-Satin NAST	Capacryl PU-Satin <sup>2)</sup> or Capacryl PU-Satin NAST
Wood, stable in dimensions	exterior	BFS Data Sheet No. 18	Capacryl Holzschutz-Grund	Capacryl Holz-IsoGrund <sup>1)</sup>		
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 or Capacryl Haftprimer NAST		
Aluminium/copper	interior/ exterior	BFS Data Sheet No. 6	–	Capacryl Haftprimer or Capacryl Haftprimer NAST		
Rigid PVC	interior/ exterior	BFS Data Sheet No. 22	–	Capacryl Haftprimer or Capacryl Haftprimer NAST		
Sound existing paint coatings	interior/ exterior	slightly sanding/ alkali treatment	Prepare and prime defects according to substrate requirements	Capacryl Haftprimer or Capacryl Haftprimer NAST		

<sup>1)</sup> Always apply Capacryl Holz-IsoGrund on wood containing water-soluble, discolouring substances (2x on knots).

<sup>2)</sup> Colour shades of low opacity (e.g. yellow/red/orange pigmented) may require an additional coat.

**Note:** Adhesion must always be tested in advance for powder coatings, coil coatings and other critical substrates by trials (coating a test area on site).

### Consumption

Approx. 120 - 160 ml/m<sup>2</sup> per coat.

Consumption is a guide value and may vary, depending on substrate requirements. Determine the exact amount of material required by coating a test area on site.

### Application Conditions

#### Low Temperature Limit for Application and Drying:

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

### Drying/Drying Time

At 20 °C and 65 % relative humidity (RH)	dust dry	recoatable (spray application)	completely 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. Use combifilter A2/P2 when spraying. Use P2 dust filter for grinding. Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the paint. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Do not allow product to enter drains, waterways or soil. Further information: See Material Safety Data Sheet (MSDS).

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

Germany: Advice for allergy sufferers with isothiazolinone allergy: Hotline 0180/5308928 (0.14 €/minute from German landline, MTS max. 0.42 €/minute).

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.

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): max. 130 g/l (2010). This product contains max. 110 g/l VOC.

Product Code Paints and Enamels

M-LW01 (Germany)

Substances of Content - Declaration

Polyurethane/acrylate resin, titanium dioxide, coloured pigments, mineral fillers, water, glycols, glycol ether, additives, preservatives (methyl-/benzisothiazolinone).

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