

Capacryl PU-Matt NAST

High-quality polyurethane-acrylic enamel for interior use.
Special formula for the NAST mist-free spray technology.



Product Description

Field of Application	<p>Water-dilutable (waterborne) polyurethane-acrylic enamel for professional intermediate and finishing (top) coats indoors. Suitable for use on primed wooden parts as well as for primed metals and unplasticized (rigid) PVC. For mist-free spray application with Caparol Frondend nozzle in combination with the following equipment for spraying:</p> <p>Wagner XVLP FinishControl 6500 TS Wagner XVLP FinishControl 5000 Wagner XVLP FinishControl 3500 Titan Focus 700</p> <p>Note: Matt surfaces are sensitive to stress by scratching and scouring. Preferably use Capacryl PU-Satin/Gloss for surfaces with higher mechanical stress/loads and all permanently touched parts, e.g. in public buildings.</p> <p>Explanation: NAST / <i>German term: Nebelarme Spritz-Technologie</i> = Spray technology with low spray mist (dust/fog) formation</p>
Material Properties	<ul style="list-style-type: none"> ■ Water-dilutable (waterborne). ■ Dull matt (Dead-matt as per DIN EN 13 300). ■ Nearly mist-free spray application. ■ Low odour. ■ Non-blocking. ■ Diffusion-capable. ■ Resistant to common household detergents.
Material Base / Vehicle	Polyurethane-acrylic dispersion/emulsion
Packaging/Package Size	<ul style="list-style-type: none"> ■ White (Weiß) NAST 750 ml, 2.5 litres ■ ColorExpress NAST 700 ml, 2.4 litres
Colours	<ul style="list-style-type: none"> ■ White ■ ColorExpress NAST: Tintable via the ColorExpress stations (Capamix) in colour shades of Caparol 3D PLUS collection and in many shades of other current colour collections. <p>A material typical (limited) pigment abrasion may occur on the surface of matt enamels, such as Capacryl PU-Matt NAST, particularly when the product is tinted in dark and intensively coloured shades.</p> <p>When applying colours with low opacity (hiding power), such as Red, Orange or Yellow, it is advisable to previously apply one priming coat using the matching colour shade of our Priming System. Priming System colours are available via the ColorExpress tinting technique for the following products: Capacryl PU-Matt, Capacryl Haftprimer and Capacryl PU-Vorlack.</p>



Gloss Level

■ **Matt**

Storage

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

Technical Data

Density: Approx. 1.1 - 1.3 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 / (+) suitable				

Application

Suitable Substrates

Primed wood component parts, primed metals and unplasticized/rigid PVC, indoors.
The substrate must be clean, sound/stable, dry and free from all substances that may prevent good adhesion.

Substrate Preparation

Wooden Parts:

Sand the surface in fibre direction, clean thoroughly and prime with Capacryl Holz-IsoGrund, if necessary.

Iron, Steel:

Derust according to industry standard SA 2½ (blasting) or ST3 (mechanically) according to DIN EN ISO 12 944-4, followed by an anti-rust priming coat.

Zinc (Galvanised Substrates), Unplasticized/Rigid PVC:

Wash with light ammonia solution or Gescha Multistar using a sanding pad/non-woven web as per German BFS-Merkblätter (Data/Fact Sheets) Nos. 5 and 22. Allow to dry and prime with Capacryl Haftprimer.

Aluminium, Copper:

Clean with nitro-thinner (diluent for cell lacquers) or Multistar using a sanding pad/non-woven web as per German BFS-Merkblatt (Data/Fact Sheet) No. 6 (aluminium). Allow to dry and prime with Capacryl Haftprimer.

Existing Paint Coatings:

Sand the surface and/or treat with alkaline solution. Remove unstable existing coatings and prime as per substrate requirements.

Method of Application

Guidelines for Spray Application:

	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
Wagner XVLP FinishControl 3500	Caparol NAST	8 - 9	10	undiluted
Titan Focus 700	Caparol NAST	8 - 9	2/3	undiluted

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

Application:

Capacryl PU-Matt NAST is particularly adjusted for use with the above mentioned spray equipment and special nozzle Caparol NAST-Frontend. Only this combination of material and equipment enables 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 1)	Substrate Preparation	Priming Coat	Intermediate Coat 3)	Finishing Coat 4)
Wood, derived timber products	interior	sanding/cleaning	Capacryl Holz-IsoGrund 2)	if necessary: Capacryl PU-Vorlack	1 - 2 x Capacryl PU-Matt NAST
Iron, steel	interior	derust/cleaning	Capalac AllGrund		
Zinc (Galvanised surfaces)	interior	BFS No. 5	Capacryl Haftprimer		
Aluminium/copper	interior	BFS No. 6	Capacryl Haftprimer		
Rigid PVC	interior	BFS No. 22	Capacryl Haftprimer		
Stable existing paint coatings	interior	slightly sanding/alkali treatment	Capacryl Haftprimer		

1) Definition of suitable application areas: see Technical Information No. 606.

2) Always apply Capacryl Holz-IsoGrund on wood with content of water-soluble, discolouring substances (2x on knots).

3) The intermediate coat should match the finishing coat in shade. For colour shades of low opacity (e.g. red, yellow and orange pigmented) a matching colour is automatically selected via ColorExpress, thus a better opacity is achievable for finishing/top coats. This shade may differ from the selected colour in favour of the hiding power of top coats.

4) 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/m² 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.	dust dry	recoatable	cured
after hours	1 - 2 hours	8 - 10 hours	48 hours

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. 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: 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. 130 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).

Customer Service Centre

Tel.: +49 06154- 71 7 1710

Fax: +49 05154- 71 7 1008

e-mail: kundenservicecenter@caparol.de

International Distribution: Please see www.caparol.com

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