

## Lacryl-PU Silk Matt Enamel 270

Water-based, low emission and low pollutant, PU-modified,  
for interior and exterior use



[www.blauer-engel.de/uz102](http://www.blauer-engel.de/uz102)

Farbsystem Basecode

Entspricht EN 71-3  
Sicherheit von Spielzeug  
Speichel- und schweißecht

### Field of application

For intermediate and top coats, exterior and interior use, on e.g., wood, wooden materials, zinc, aluminum, iron/steel (interior use only). Can also be used for colored radiator paint (heat resistant up to +80°C) and hard-wearing coats on small areas in interiors, e.g., on textured substrates such as CreaGlas Fabric, Relief and woodchip wallpaper.

### Properties

- Water-based, low emission and low pollutant
- For interior and exterior use
- On an acrylate base, PU modified
- Quick-drying
- Water-vapor-permeable
- Highly lightfast
- Block-resistant
- Hard-wearing and cleanable
- Complies with EN 71-3 Safety of toys, resistant to saliva and perspiration
- Meets the requirements for wet abrasion resistance Class 1 in accordance with DIN EN 13300

### Material description

Standard colors	Scala no.	Description
	–	0095 white
	–	0096 antique white
	03.18.18	RAL 1021 rape blossom yellow <sup>1)</sup>
	27.24.27	RAL 3000 fire red <sup>1)</sup>
	60.18.27	RAL 5010 gentian blue
	81.09.30	RAL 6005 moss green
	72.06.30	RAL 7016 anthracite grey
	75.03.12	RAL 7035 light grey
	51.03.24	RAL 7037 dusty grey
	15.06.30	RAL 8017 chocolate brown

## Material description

<b>Standard colors</b>	Scala no.	Description
	03.03.09	RAL 9002 grey white
	93.03.06	RAL 9010 pure white
	–	9900 black
More colors can be mixed using the Brillux Color System. <sup>1)</sup> For these color shades we recommend applying a full-covering base coat in the corresponding base color shade (Basecode).		
<b>Gloss grade</b>	silk matt	
<b>Base material</b>	Acrylic-copolymer-dispersion	
<b>VOC</b>	EU limit for this product (cat. A/b): 100 g/l (2010) This product contains a max. of 100 g/l VOC	
<b>Constituent substances</b>	Acrylate copolymer emulsion, titanium dioxide, silicates, inorganic/organic colored pigments (depending on the color shade), water, glycol ether, additives and preservatives (benzisothiazolinone and methylisothiazolinone)	
<b>Density</b>	approx. 1.25 g/cm <sup>3</sup> (white)	
<b>Packaging</b>	Standard: 375 ml, 750 ml, 3 l, 10 l Color System: 375 ml, 750 ml, 3 l, 10 l	

## Use

<b>Thinning</b>	If necessary, dilute with water up to approx. 5 % or up to 10 % for spray application.
<b>Tinting</b>	All color shades can be mixed with one another.
<b>Compatibility</b>	Do not mix with other types of materials.
<b>Application</b>	Lacryl-PU Silk Matt Enamel 270 can be applied by means of paint brush and rollers. For paint brush application synthetic paint brushes are particularly suitable, e.g. Uni-Plus Paint Brush, round 1204 and Aqua Ring Paint Brush 1215. For detailed information on spray application refer to the table on the next page.
<b>Consumption</b>	Approx. 110 to 130 ml/m <sup>2</sup> per layer. Determine exact consumption by means of a test application on the object to be coated.
<b>Application temperature</b>	Do not apply if air or object temperature is below +5 °C.
<b>Tool cleaning</b>	Clean tools immediately after use with water and soap.

## Use

### Spray data

Technique	Nozzle	Spraying angle	Supply air/ air volume	Material pressure/ material quantity	Thinning	Cross- spraying
Low pressure <sup>1)</sup>	Yellow Frontend <sup>2)</sup>	–	50–100 %	ring setting 6–8	approx. 10 %	1–1½
AirCoat <sup>3)</sup>	0,011 Inch	40°	ca. 1,0–1,5 bar (air)	100–120 bar	unthinned	1
Airless <sup>4)</sup>	0,008 Inch	40°	–	180 bar	approx. 3 %	1

Data is based on a substrate and ambient temperature of +20 °C

<sup>1)</sup> Information relating to XVLP technology with Wagner FinishControl FC 3500 or FC 5000.

<sup>2)</sup> StandardSpray spray attachment (yellow) for all standard lacquers and woodstains. Also keep the nozzle clean during application. Remove surface-dried paint material with a soft brush. Follow the equipment manufacturer's instructions.

<sup>3)</sup> Information relating to the use of 11/40 AirCoat nozzles (green or blue air cap) e.g. for large-surface applications and 11/50 nozzles with otherwise unchanged settings.

<sup>4)</sup> The information is based on the use of FineFinish nozzles 408 (TradeTip 3 - violet).

### Drying (+20°C, 65% rel. humid.)

Dust dry after about 2 hours. Recoatable after approx. 15 hours.  
Allow longer drying times at lower temperatures and/or higher air humidity.

### Storage

Store in a cool, dry and frost-free place. Reseal opened containers tightly. Only completely emptied containers may enter the recycling system. Dispose of liquid material residues at official used paints disposal facilities.

### Declaration

**Product code** BSW30.  
Comply with the specifications in the current safety data sheet.  
Information for individuals allergic to isothiazolinone is available at phone +49 251 7188-403.

### Coating build-up

**Substrate preparation** The substrate must be solid, dry, clean, with good adhesiveness, load-bearing and free from separating agents. In accordance with BFS Leaflet No. 18, the moisture content must not exceed 15 % in the case of dimensionally accurate and 18 % in the case of dimensionally inaccurate wooden components. Check existing coatings for their suitability, load-bearing capacity and adhesive properties. Remove defective and unsuitable coatings thoroughly and dispose of them in accordance with the applicable regulations. Thoroughly sand intact coats. Hazardous particles and vapors may be released while reworking on or removing old paint coats, e.g., as a result of sanding, paint removal by heat gun, etc. Perform such work only in well ventilated areas and ensure the use of appropriate protective equipment (including respiratory protective equipment) as required. Pretreat, prime and/or apply the intermediate coat to the substrate, as required. Also see VOB Part C, DIN 18363, Section 3.

### Exterior coats on wood

Substrates	Impregnation <sup>1)</sup>	Prime coat <sup>3)</sup>	Intermediate coat	Top coat
dimensionally accurate and limited dimensionally accurate wooden components/structures, untreated: e.g. doors and windows, groove and tongue paneling (e.g. underside of roofs)	Wood Preservative Primer 250	Lacryl Universal Primer 246, Isoprimer 243 or Hydro-PU-XSpray Isoprimer 2243	Lacryl-PU Silk Matt Enamel 270	Lacryl-PU Silk Matt Enamel 270
limited dimensionally accurate and dimensionally accurate wooden components/structures with intact old coat	defective areas with Wood Preservative Primer 250 <sup>2)</sup>			

<sup>1)</sup> Refer to BFS Leaflet No. 18, section 6 and 7.2.1.

<sup>2)</sup> Coat defective areas with Lacryl Universal Primer 246, Isoprimer 243 or Hydro-PU-XSpray Isoprimer 2243 before applying the prime coat.

<sup>3)</sup> In the case of white or bright paint coats, use Isoprimer 243 or Hydro-PU-XSpray Isoprimer 2243 to prevent shining through of water-soluble constituents. With constituent-rich wood two prime coats are recommended. Alternatively to Isoprimer the prime coat can be carried out with Impredur Primer 835.

### Interior coats on wood

Substrates	Prime coat <sup>2) 3)</sup>	Intermediate coat	Top coat
wooden components/structures, wooden materials, untreated	Lacryl Universal Primer 246, Isoprimer 243 or Hydro-PU-XSpray Isoprimer 2243	Lacryl-PU Silk Matt Enamel 270	Lacryl-PU Silk Matt Enamel 270
components/structures, wooden materials, with intact old paint coat	Lacryl Universal Primer 246, Isoprimer 243 or Hydro-PU-XSpray Isoprimer 2243 <sup>1)</sup>		

<sup>1)</sup> Coat defective areas with Lacryl Universal Primer 246, Isoprimer 243 or Hydro-PU-XSpray Isoprimer 2243 before applying the prime coat.

<sup>2)</sup> In the case of white or bright paint coats, use Isoprimer 243 or Hydro-PU-XSpray Isoprimer 2243 to prevent shining through of water-soluble constituents. With constituent-rich wood two prime coats are recommended. Alternatively to Isoprimer the prime coat can be carried out with Impredur Primer 835.

<sup>3)</sup> Depending on the requirements, Enamel Filler 518 can be used indoors for treating the primed surfaces, for example.

**Interior coats on iron/steel**

Substrates	Prime coat <sup>2) 3)</sup>	Intermediate coat	Top coat
iron/steel, untreated	depending on requirements, Metal Primer 850 or Multi Primer 227	Lacryl-PU Silk Matt Enamel 270	Lacryl-PU Silk Matt Enamel 270
iron/steel, interior, with factory prime coat	Lacryl Universal Primer 246 <sup>1)</sup>		
iron/steel, with intact, bearing old paint coat			

<sup>1)</sup> Coat defective areas with Metal Primer 850 or Multi Primer 227 before applying the prime coat.

<sup>2)</sup> Depending on the requirements, Enamel Filler 518 can be used indoors for treating the primed surfaces, for example.

<sup>3)</sup> On CoilCoating, powder coatings and two-component coats, we recommend as a general rule priming with 2K-Epoxy Varioprimer 865 or 2K-Epoxy Varioprimer S 864.

**Coats on zinc, galvanized steel, aluminum, hard PVC**

Substrates	Prime coat <sup>2) 3)</sup>	Intermediate coat	Top coat
zinc, zined components/structures, exterior and interior, untreated	depending on requirements and selection with Lacryl Universal Primer 246, 2K-Aqua Epoxy Primer 2373, 2K-Epoxy Varioprimer 865 or 2K-Epoxy Varioprimer S 864	Lacryl-PU Silk Matt Enamel 270	Lacryl-PU Silk Matt Enamel 270
aluminum, hard PVC, etc., exterior and interior, untreated			
hard PVC, etc., exterior and interior, untreated	depending on requirements and selection with Lacryl Universal Primer 246, 2K-Epoxy Varioprimer 865 or 2K-Epoxy Varioprimer S 864		
intact, load-bearing coats, exterior and interior	Lacryl Universal Primer 246 <sup>1)</sup>		

<sup>1)</sup> Coat defective areas with Lacryl Universal Primer 246, 2K-Aqua Epoxy Primer 2373, 2K-Epoxy Varioprimer 865 or 2K-Epoxy Varioprimer S 864 before applying the prime coat.

<sup>2)</sup> Depending on the requirements, Enamel Filler 518 can be used indoors for treating the primed surfaces, for example.

<sup>3)</sup> On CoilCoating, powder coatings, two-component coats and anodized aluminum, we recommend as a general rule priming with 2K-Epoxy Varioprimer 865 or 2K-Epoxy Varioprimer S 864.

<b>Protective measures</b>	Keep out of the reach of children. Use protective goggles and the combination filter A2/P2 for spraying. Use the Dust Filter P2 during sanding. Ensure proper ventilation during application and drying. Avoid eating, drinking and smoking during application. Upon contact with eyes or skin, immediately rinse thoroughly with water. Ensure that the material cannot enter the sewage system, waters or soil.
<b>Sand substrates</b>	We recommend intermediate sanding between the individual work steps. The surfaces must be sanded down to ensure a "paint-on-paint" structure.
<b>Wood-based panels for exterior use</b>	Due to the present state of the art, wood-based panels are only conditionally suited for exterior coating. Also refer to BFS Leaf-let No. 18, Paragraph 2.2.3. A coating recommendation can only be provided on a case-by-case basis under consideration of the material type and quality, construction and climatic conditions. Please contact the Brillux Consulting Service, as required.
<b>Avoid contact with plasticizers</b>	Keep varnish away from plasticizer-containing plastic materials, e.g. sealing profiles/sealing materials. Use plasticizer-free profiles.
<b>Surfaces with heavy exposure</b>	For surfaces with a higher degree of exposure, we recommend using two-component enamel paint systems.
<b>Avoid "coat-on-coat contacts"</b>	Waterborne paints behave like thermoplasts. For this reason "coat-on-coat contacts", e.g. stacking, should be avoided.
<b>Design with brilliant or intensive colors</b>	Brilliant, pure intense color shades, e.g. in the yellow, orange, red, magenta and yellow-green range have a low covering capacity due to the nature of their pigments. When using critical color shades in these color ranges, we recommend applying a full-covering prime coat in the corresponding base color (Base-code). In addition to the standard coating build-up, additional coats may be required.
<b>Abrasion in case of mechanical strain</b>	In the case of intensive and dark colors, mechanical stress can cause pigment abrasion on the coat surface. This is state-of-the-art for silk matt enamel paints and shall not give rise to complaints.
<b>Cleaning and care</b>	To clean the coated surfaces, use a clean, soft cloth, which is either dry or damp, but without any abrasive, solvent-based or caustic cleaning agents. Avoid applying too much pressure when cleaning (i.e. do not polish the surfaces). First, test the cleaning result in an unobtrusive area. Only clean surfaces that have completely dried and set.
<b>Further information</b>	Follow the instructions on the data sheets of the products used.

This Data Sheet is based on extensive development work and years of practical experience. The translation corresponds to the current German version, in compliance with the German laws, regulations, standards and guidelines. Its content does not constitute a contractual legal relationship. The user/buyer is not released from the responsibility of checking our products to ensure they are suitable for the intended application. In addition, our general terms of business apply.

When a new version of this Data Sheet with updated information is published, the previous version no longer applies. The current version is available on our website.

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