

Lacryl-PU Window Enamel 273

water-based, low-emission and low-pollutant, PU-modified, white,
moisture-regulating, for interior and exterior use



www.blauer-engel.de/uz102

Field of application

For moisture-regulating intermediate and top coats, in exterior and interior areas, particularly on dimensionally stable wooden components, e.g., windows and exterior doors. Furthermore, can also be used on primed non-ferrous metal surfaces and primed iron/steel (only in interior areas).

Properties

- Water-based, low-emission and low-pollutant
- For interior and exterior use
- Acrylic resin base, PU modified
- Block-resistant
- Moisture-regulating
- Optimum filling and hiding power
- Very good edge covering
- Fast-drying

Material description

Color shades	0095 white
Degree of gloss	Glossy
Base material	Acrylate copolymer dispersion
VOC	EU limit value for this product (Cat. A/d): 130 g/l (2010). This product contains max. 130 g/l VOC.
Constituent substances	Acrylic-copolymer-dispersion, titanium dioxide, water, glycol ether, additives and preservatives (benzisothiazolinone and sodium pyrithione).
Density	Approx. 1.2 g/m ³
Packaging	750 ml and 3 l

Application

Thinning	If necessary, dilute with water up to approx. 5%.
Tinting	Up to max. 10% with Lacryl-PU Gloss Enamel 275.
Compatibility	Do not mix with other materials.
Application	Lacryl-PU Window Enamel 273 should preferably be applied with a brush. Paint brushes with synthetic bristles, such as the Uni-Plus Paint Brush, round 1204 are suitable for application.
Consumption	Approx. 90-120 ml/m ² per layer. Determine the exact consumption by means of a test application on the object to be coated.
Application temperature	Do not apply if air or object temperature is below +5 °C.
Tool cleaning	Clean tools immediately after use with water and soap.

Drying (+20 °C, 65% relative humidity)

Dust dry after approx. ½ hour. Recoatable after approx. 15 hours. Allow for longer drying time if the temperature is lower and/or the humidity is higher.

Storage

Store in a cool, dry, and frost-free place. Reseal opened containers tightly. Only recycle completely empty containers. Dispose of liquid material residue at a collection point for old varnishes/old paints.

Declaration

Product code	BSW30 Comply with the specifications in the current Safety Data Sheet. Contains benzisothiazolinone and sodium pyrithione. Can cause allergic reactions. Allergy information at +49 251 7188-403.
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Substrate preparation

- The substrate must be solid, dry, clean, with good adhesiveness, load-bearing, and free from separating agents.
- The BFS Leaflet no. 18 specifies that the maximum moisture content for dimensionally stable components must be limited to 15%. For non-dimensionally stable components and components with limited dimensional stability, the moisture content must not exceed 18%.
- Prepare zinc, galvanized surfaces by cleaning them with Universal Cleaner 1032 or with ammoniac washing fluid (in accordance with BFS Leaflet No. 5, Paragraph 3.3).
- Aluminum, bright metal with e.g. Universal Cleaner 1032 and abrasive fleece and then wash thoroughly with warm water. When treating aluminum, observe BFS Leaflet No. 6.
- Check existing coatings for their suitability, load-bearing capacity, and adhesive properties. Remove defective and unsuitable coatings completely, and dispose of them in accordance with the applicable regulations. Sand intact paint coatings thoroughly.
- Hazardous particles and vapors may be released while reworking or removing old paint coats, e.g. as a result of sanding, paint removal by heat gun, etc. Perform such work in well ventilated areas only 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 BFS Leaflet no. 18, 4 and 5, as well as VOB Part C, DIN 18363, Paragraph 3.

Exterior coats on wood

Substrates	Impregnation ^{1) 3)}	Prime coat ^{2) 3)}	Intermediate coat	Top coat
Wooden components with dimensional stability or limited dimensional stability, untreated: e.g., windows and doors, groove and tongue paneling (e.g., roof soffits)	Lignodur Contrabol Aqua 250	Lacryl Universal Primer 246 or Isoprimer 243	Lacryl-PU Window Enamel 273	Lacryl-PU Window Enamel 273
Wooden components with dimensional stability or limited dimensional stability, with intact old enamel paint coating	Treat untreated wooden surfaces with Lignodur Contrabol Aqua 250			

- 1) Follow the instructions in BFS Leaflet No. 18, Sections 6 and 7.2.1.
- 2) Pretreat defects prior to the prime coat with Lacryl Universal Primer 246 or Isoprimer 243.
- 3) When using white or light coatings, apply the prime coat with Isoprimer 243 to prevent water-soluble constituents from bleeding through. We recommend providing two coats of primer on wood that is very rich in active substances. As an alternative to Isoprimer 243, the prime coat can also be applied using Impredur Primer 835.

Interior coats on wood

Substrates	Prime coat ^{2) 3)}	Intermediate coat	Top coat
Wooden components, wooden materials, untreated	Lacryl Universal Primer 246 or Isoprimer 243	Lacryl-PU Window Enamel 273	Lacryl-PU Window Enamel 273
Wooden components, wooden materials, with intact old enamel paint coating	Lacryl Universal Primer 246 or Isoprimer 243 ¹⁾		

¹⁾ Pretreat defects prior to the prime coat with Lacryl Universal Primer 246 or Isoprimer 243.

²⁾ When using white or light coatings, apply the prime coat with Isoprimer 243 to prevent water-soluble constituents from bleeding through. We recommend providing two coats of primer on wood that is very rich in active substances. As an alternative to Isoprimer 243, the prime coat can also be applied using Impredur Primer 835.

³⁾ Depending on the individual requirements in interior areas, e.g. Enamel Filler 518 can be used to fill surfaces after priming.

Interior coats on iron/steel

Substrates	Prime coat ^{2) 3)}	Intermediate coat	Top coat
Iron/steel, untreated	Depending on the requirements Metal Primer 850 or Multi-Primer 227	Lacryl-PU Window Enamel 273	Lacryl-PU Window Enamel 273
Iron/steel, with factory prime coat	Lacryl Universal Primer 246 ¹⁾		
Iron/steel, with intact, load-bearing old coating			

¹⁾ Pretreat defects prior to the prime coat with Metal Primer 850 or Multi-Primer 227.

²⁾ Depending on the individual requirements in interior areas, e.g. Enamel Filler 518 can be used to fill surfaces after priming.

³⁾ On CoilCoating, powder coatings, two-component coats and anodized aluminum, we recommend as a general rule priming with 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864. The suitability of coil coatings must be verified individually on-site.

Coating build-up

Coats on zinc, zinc-coated steel, aluminum, rigid PVC

Substrates	Prime coat ^{2) 3)}	Intermediate coat	Top coat
Zinc, zinc-coated components, exterior and interior, untreated	Depending on the requirements and selection, with Lacryl Universal Primer 246, 2K-Aqua Epoxy Primer 2373, 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864	Lacryl-PU Window Enamel 273	Lacryl-PU Window Enamel 273
Aluminum, bright metal, untreated, exterior and interior			
Rigid PVC, exterior and interior, untreated	Depending on the requirements and selection, with Lacryl Universal Primer 246, 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864		
Intact, load-bearing coatings, exterior and interior	Lacryl Universal Primer 246 ¹⁾		

¹⁾ Pretreat damaged areas before the prime coat with Lacryl Universal Primer 246, 2K-Aqua Epoxy Primer 2373, 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864.

²⁾ Depending on the individual requirements in interior areas, e.g. Enamel Filler 518 can be used to fill surfaces after priming.

³⁾ On CoilCoating, powder coatings, two-component coats and anodized aluminum, we recommend as a general rule priming with 2K-EP Varioprimer 865 or 2K-EP Varioprimer S 864. The suitability of coil coatings must be verified individually on-site.

Notes

Protective measures Keep out of the reach of children. Use safety glasses 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, bodies of water, or soil.

Sand the substrates We recommend intermediate sanding between the individual work steps. For "paint-on-paint" build-up, the surfaces must first be sanded down.

Wood-based panels for exterior use In accordance with the current state of the art, wood-based panels are only conditionally suited for coating in exterior areas. Also refer to BFS Leaflet 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 if you require assistance in this context.

Avoid contact with plasticizers Do not allow the paint coating to come into contact with plastics containing plasticizers, e.g. sealing profiles/sealants, etc.. Use plasticizer-free profiles.

High-use surfaces For surfaces with a higher degree of exposure, we recommend using two-component enamel paint systems.

Notes

- Avoid “paint-on-paint contacts”** Water-based enamel paints exhibit thermoplastic behavior. As a consequence, paint-on-paint contacts, e.g. due to stacking, must be avoided.
- Cleaning and care** For cleaning the painted surfaces, use a clean, soft cloth, dry or damp, without abrasive, solvent-based or caustic agents. Clean without applying excessive pressure (do not polish the surfaces). Perform a test cleaning beforehand in an inconspicuous area. Only clean surfaces that have completely dried and cured.
- Further information** Follow the instructions in the data sheets of the products used.

Remark

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.

Brillux
Weseler Straße 401
48163 Münster
GERMANY
Phone +49 251 7188-0
Fax +49 251 7188-105
info@brillux.de
www.brillux.com