



Product description

Unolit 1K-PUR Klarlack UL is an extremely resistant one-pack polyurethane varnish with integrated hardener. Its good chemical and mechanical resistance allows the application even for increased demands. Unolit 1K-PUR Klarlack UL is very easy to process, well sandable and PVC-resistant. It is easy to apply by roller or brush so that it is also ideal for the renovation of furniture.

Range of application

Unolit 1K-PUR Klarlack UL is only suitable for the finishing of interior furniture surfaces. Due to its excellent scratch resistance it is very well suitable for extremely stressed furniture surfaces in, for example, offices, kitchens, bathrooms, restaurants, bars, schools and discoteques. It is also suitable for interior fittings in spaces other than buildings, e.g. campers, caravans, railway carriages, airplanes, etc.

Surfaces

All common wood and wood materials. Wood rich in resin and wood rich in ingredients (e.g. some pine, teak or wenge types) must first be insulated with Plastiklack S 7000. All Zweihorn® stains, with the exception of wax stain, can be used. For varnishing white and pastel shades, which require high colourfastness, we recommend the use of extremely lightfast varnishes, such as varnishes of the Puroolit-, Crystallit®- or Diadur®-series.

Preparation

For raw wood surfaces a graduated sanding must be carried out (120/150/180 grit paper). Dust well. Do not sand stained surfaces.

Gloss levels		
Product number	UL 8	UL 9
Gloss level	silk	silk-lustre
Measuring value acc. to DIN 67530 at 60°	approx. 35	approx. 15

Hardening	
Hardener	integrated
Processing time	approx. 24 h at 20 °C, 65 % relative humidity of air
	approx. 2 months after opening in the tightly closed original container

Thinner

PUR-Verdüner S 9004 (normal drying)
PUR-Verdüner S 9029 (slow drying)

Application

Stir or shake well before use!

Unolit 1K-PUR Klarlack UL can be applied with a spraygun, a brush or a short-piled roller. It is applied as primer and, after drying and intermediate sanding (280-grit paper) as coating varnish. Remove the sanding dust after each intermediate sanding. Unolit 1K-PUR Klarlack UL is ready for brush application. After dilution, it can be applied by a spraygun.

Application methods	Spraying		Roller/ Brush
	High/ Low pressure	Airless/ Airmix	
Spray press. (bar)	1.5-3.0	110-130	–
Nozzle size (mm)	1.6-2.0	0.23-0.28	–
Thinner added (%)	15-20	–	–
Processing viscosity DIN 4 mm (sec.)	approx. 20	approx. 30	approx. 30
Coverage per application (g/m ²)	100-120	120	100
Yield (m ² /l)	8-10	8	10

Drying time (at 20°C room temperature, 65 % relative humidity of air)	
dust-dry	approx. 30 min.
touch-dry	approx. 2 h
sandable	approx. 6 h
transportable	overnight

Aftertreatment

After prior sanding and dusting, Unolit 1K-PUR-Klarlack UL can be worked over at any time with the same material.

Product data	
Batch sizes	1 l, 2.5 l, 5 l
Viscosity at delivery DIN 4 mm	approx. 30 sec.
Shelf life in unopened, sealed original batch	approx. 6 months

For further information see the Safety Data Sheet according to 91/155/EWG, which you can find on our website www.zweihorn.com or which you can request from us.

Special notes

- ▶ Do not pour remainders of the varnish back into the original batch!
- ▶ Carefully close open batches immediately, so that the varnish is protected against air humidity and remains storable for a longer period.
- ▶ Never treat bleached wood with Unolit 1K-PUR-Klarlack UL, since they could take-on yellow colour!
- ▶ Caution! Unolit 1K-PUR-Klarlack UL reacts with CK Colorkonzentrat. By adding max. 3 % of CK, potlife is reduced to approx. 8 hours.
- ▶ Immediately clean the working equipment with Universalreiniger UR, since Unolit 1K-PUR-Klarlack reacts like a two-pack PUR varnish!
- ▶ If higher UV resistance is required, Spezial Sunblocker SB can be added to the varnish. See the Technical Data Sheet for Spezial Sunblocker SB.
- ▶ Surfaces treated with solvent-based stains (e.g., S 9800, WCF, WNCB, S 9900) must not be varnished with a brush or a roller. Only use a spraygun in order to avoid partly dissolving and smearing of the stain.

Meets the following test standards:

-  Chemical exposure of furniture surfaces according to DIN 68861/1B
-  EN 71-3 Free from soluble heavy metals (CE approval)
-  DIN 53160 Part 1 and Part 2 Saliva and sweat proof (CE approval)
-  Flame resistant according to DIN 4102/B1 on B1-tested particle board, also veneered
-  DIN 5510. Part 2 - Fire prevention in railway applications

Please follow the relevant test certificates for our products, which can be downloaded from our website "www.zweihorn.com" or requested from us.

Zweihorn® products are produced for the professional user, who has a basic knowledge of the use and the application of stains, varnishes, glazes and glues. The user information for our qualities given in the leaflets should be regarded as non-binding recommendations. They are based on our test series and experiences and should facilitate and promote the work of our clients. Any adjustment to the individual working conditions, which might be possible, lies within your responsibility. If in any doubt, our material experts as well as our application and laboratory technicians will try to help you as best as they can. We guarantee of course the impeccable quality of our products based on our General Sales and Delivery Conditions. The use of the final product lies entirely within the responsibility of the buyer. As long as we have not guaranteed in writing specific characteristics and suitability of the products for a contractually agreed purpose, any advice or information given regarding the application, even if the advice or information is given to the best of our knowledge, will be non-binding. Nor does it relieve the buyer, either from his own inspection, and if need be through a trial processing. Furthermore, we are only liable according to Chapter 1 of our General Conditions for advice either given or rejected, which does not refer to the characteristics and use of the delivered product.

Applicable is the current Technical Data Sheet, which can be downloaded under www.zweihorn.com. Previous technical data sheets are voided with the issue of a new version.

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