

TECHNICAL INFORMATION

Report date: 14/06/2024



Revision date: 14/06/2024

Page 1 of 4

Product name: two-component clear acrylic varnish APP Klarlack Beta.

APP No: 020210-1,0 L and 020211-5,0 L.

Two-component clear acrylic varnish with enhanced scratch resistance and high gloss. Designed for the repair of individual components as well as entire vehicles. UV filters ensure the colour fastness of the base varnish. Easy to apply and to polish.

Packaging.	Varnish-1.0 L, 5.0 L; hardener-0.5 L, 2.5 L.
Product and accessories.	APP Klarlack Beta - clear varnish, APP Harter Klarlack Beta Normal and Fast - hardeners with standard and short curing time, APP Acryl Verdunnung - thinner for acrylic products.
Special additives.	APP Loser - shading solvent, APP Elastic - additive increasing the flexibility of coatings, APP Anti-Silikon - additive neutralising the effects of silicone impurities.
Basic ingredients.	APP Klarlack Beta - hydroxylated acrylic resins, APP Harter Klarlack Beta - isocyanate hardeners.
Colour.	Transparent and clear with high gloss.
Specific gravity.	Clear varnish: $0.96 \pm 0.03 \text{ g/cm}^3$. Normal hardener: 0.948 g/m^3 . Fast hardener: 0.954 g/m^3 .
Yield.	7-8 m ² /l Attention! In practice, the yield depends on factors such as the shape of the object, the roughness of the substrate, the application method and the working conditions.
<u>Application</u>	Intended for repairing components and entire vehicles as a topcoat in two-layer bodywork restoration coats. For use with water-based and conventional base varnishes.
<u>Substrate</u>	
Suitable substrates.	Conventional base varnishes, old and cured varnish coats.

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Revision date: 14/06/2024

Page 2 of 4

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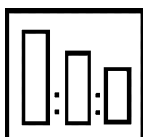
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Substrate preparation Before spraying, the surface to be varnished must be cleaned of any loose and dried base varnish dust. Matt, clean off any dust and degrease the old coating.

If the relative humidity is higher than 70% and the temperature is below +10 °C, it is recommended to dry the component at +60 °C.

Application

Mixing ratio.



A) For temperatures from +18 °C to +25 °C:

2 volumes APP Klarlack Beta
1 volume APP Harter Klarlack Beta Normal
10 – 15% APP Acryl Verdunnung

B) For temperatures below +18 °C:

2 volumes APP Klarlack Beta
1 volume APP Harter Klarlack Beta Fast
10 – 15% APP Acryl Verdunnung

C) Mixing ratios by weight:

100 APP Klarlack Beta
49 APP Harter Klarlack Beta
13-20 APP Acryl Verdunnung

Mixture volume for 0% diluent addition	Mixing ratios by weight				
	APP Klarlack Beta	APP Harter Klarlack Beta	APP Acryl Verdunnung		
	100	49.2	5%	10%	15%
[L]	[g]	[g]	[g]	[g]	[g]
0.1	64.5	31.7	4.36	8.71	13.1
0.2	129	63.4	8.71	17.4	26.1
0.3	193	95	13.1	26.1	39.2
0.4	258	127	17.4	34.8	52.3
0.5	322	159	21.8	43.6	65.3
0.6	387	190	26.1	52.3	78.4
0.7	451	222	30.5	61.0	91.5
0.8	516	254	34.8	69.7	105
0.9	580	285	39.2	78.4	118
1.0	645	317	43.6	87.1	131

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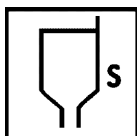


Revision date: 14/06/2024

Page 3 of 4

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Spray viscosity at +20 °C: 14-15 s 4 mm DIN.

Note!

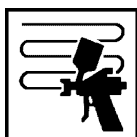
Use only APP Harter Klarlack Beta hardener for acrylic varnish.

Do not exceed the recommended hardener dosage. If necessary, add 2 to 5% APP Anti-Silicone. If necessary (plastics), add, according to the mixing table, the APP Elastic elasticiser before adding the hardener.

Application.

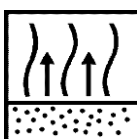


Apply with a spray gun equipped with a $\varnothing 1.2\text{-}\varnothing 1.3$ mm nozzle at an air pressure of 2 to 2.5 bar.



Number of coats: 2 x 1.

Dry film thickness: 40-45 μm (2 x 1).

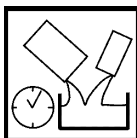


Evaporation time between coats at +20 °C:

- 10-15 minutes.

Evaporation time before forced drying at elevated temperature:

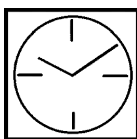
- 15-20 Minutes



Shelf life of ready-to-use varnish mixture:

- > 60 minutes.

Drying.



At +20 °C

Dust dry 15 minutes.

Tactile dryness: 2-2.5 hours.

Manipulability: 3-4 hours.



At +60 °C

IR radiator: 25-30 minutes.

10-15 minutes.

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Page 4 of 4

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Sanding



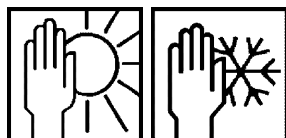
After 16 hours at +20 °C, defects and inclusions can be removed with abrasives and polished:

- by hand with wet abrasive P1500-3000
- with a machine with abrasive P1500-3000.

Equipment cleaning.

Nitrocellulose or acrylic solvent.

Storage



Store in closed original packaging in a dry and well-ventilated room and at a temperature of +5 °C to +30 °C. Protect from freezing.

OHS provisions



For professional use only.

See the text on product labels or in the MSDS.

Comply with the health and safety regulations in force in the country concerned.

VOC

VOC limit (g/l) in the ready-to-use product.

840 g/l for APP Klarlack Beta.

Maximum VOC content (g/l) in the ready-to-use product.

600 g/l for APP Klarlack Beta.

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