

TECHNICAL INFORMATION

Date of preparation:
9 May 2025



Date of update:
9 May 2025
Website1 z 4

Product name: two-component acrylic clear varnish

APP Klarlack X Gloss.

APP No.: 020251-1.0 L and 020252-5.0 L.

Two-component, fast-drying, colourless HS-class acrylic lacquer with increased scratch resistance and very high gloss. Fast drying allows it to be used for repairs of typical urban damage to vehicle parts. Easy to apply and polish. Provides a very high level of finish and, thanks to the use of UV filters, ensures the durability of the base coat colour.

Packaging. Varnish - 1.0 L, 5.0 L; hardener - 0.5 L, 2.5 L.

Product and additives. APP Klarlack X Gloss - clear coat,
APP Harter Klarlack X Gloss Wolny - hardener with extended setting time,
APP Harter Klarlack X Gloss Normlny – hardener with standard setting time,
APP Harter Klarlack X Gloss Fast - hardener with short setting time,
APP Acryl Verdunnung - thinner for acrylic products.

Special additives. APP Loser, APP Loser Spray - solvent for shading,
APP Elastic - additive increasing the elasticity of the coating,
APP Anti-Silikon – additive neutralising the effects of silicone contamination,
APP Klarlack Matt – two-component matt clear coat as an additive for adjusting (reducing) gloss.

Basic components. APP Klarlack X Gloss - acrylic resin,
APP Harter Klarlack X Gloss – isocyanate hardeners.

Colour. Transparent, colourless, high gloss.

Density at +20°C. Clear varnish: 988 kg/m³.
Hardener: slow 999; normal 989; fast 989 kg/m³.

Coverage. 9-10 m²/l
Note! In practice, coverage depends on factors such as: the shape of the object, the roughness of the substrate, the application method and working conditions.

Application Designed for repairing parts and entire sides of vehicles as a high-quality top coat in two-layer car body renovation coatings.
For use with water-based and conventional base coats.

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Substrate

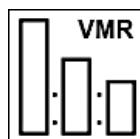
Water-based and conventional base coats, old paint coatings.

Substrate preparation.

Before spraying, clean the painted surface of loose and dry base coat dust. Matt the old coating, clean it of dust and degrease it. If the relative humidity exceeds 70% and the temperature is below +10°C, it is recommended to dry the component at +50°C.

Application.

Mixing ratio.



VMR - Volume Mixing Ratio

A) For temperatures above +23°C:

2 volumes	APP Klarlack X Gloss
1 volume	APP Harter Clearcoat X Gloss Slow
5-15%	APP Acryl Verdunnung

B) For temperatures between +18°C and +25°C:

2 volumes	APP Clear Coat X Gloss
1 volume	APP Hardener Clear Coat X Gloss Normal
5-15%	APP Acrylic Thinner

C) For temperatures below +18°C:

2 volumes	APP Clear Coat X Gloss
1 volume	APP Hard Clearcoat X Gloss Fast
5-15%	APP Acrylic Thinner

D) Mass mixing ratio (MMR):

100	APP Clear Coat Glosser
50.2	APP Hardener Clear Coat Glosser
6-19	APP Acrylic Thinner

Volume of finished product for 0% thinner additive [L]	Weight mixing ratio MMR				
	APP Clear Varnish X Gloss [g]	APP Hardener Klarlack X Gloss [g]	APP Acryl Thinner		
			5	10	15
0.1	65.9	33.1	4.36	8.71	13.1
0.2	132	66.1	8.71	17.4	26.1
0.3	198	99	13.1	26.1	39.2
0.4	263	132	17.4	34.8	52.3
0.5	329	165	21.8	43.6	65.3
0.6	395	198	26.1	52.3	78.4
0.7	461	231	30.5	61.0	91.5
0.8	527	265	34.8	69.7	105
0.9	593	298	39.2	78.4	118
1.0	659	331	43.6	87.1	131

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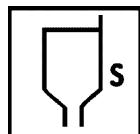
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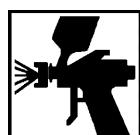
Spray viscosity at +20°C: 18 s / F/4.

Caution!

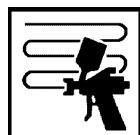
Use only hardeners for acrylic paint
APP Harter Klarlack X Gloss.

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

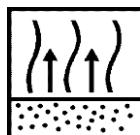
Application.



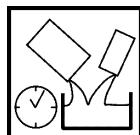
Apply with a spray gun equipped with a ø1.2-ø1.3 mm at an air pressure of 2.0 to 2.5 bar.



Number of coats: 2 x 1.
Dry film thickness: 35-45 μm (2 x 1).

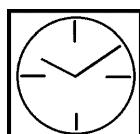


Evaporation time between coats at +20°C:
• 5-10 minutes.



Shelf life of the ready-to-use varnish mixture:
• 2.5-3.0 hours.

Drying.



At +20°C:

Dust dry: 20 minutes.

Touch dry: 1.0-1.15 hours.

Handling time: 2.0-2.5 hours.

Polishability: 2.5-3.0 hours.



At +60°C:

Polishing possible: 10-15 minutes.

30 minutes after cooling.

IR radiator:

10-15 minutes.

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Grinding.

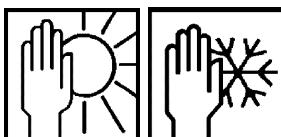


After 3.5-4.0 hours at +20°C, defects and inclusions can be removed with abrasive materials:

- manually with wet P1500-3000 abrasive material
- by machine with P1500-3000 abrasive material and polishing.

Cleaning of equipment. Nitrocellulose or acrylic solvent.

Storage



Store in closed original containers in a dry, well-ventilated room at a temperature between +15°C and +30°C. Protect from freezing. Close the hardener container immediately after use.

Health and safety regulations.



For professional use only.

See: text on product labels or in the hazardous product data sheet.

The user must comply with the health and safety regulations in force in their country.

VOC.

Permissible VOC value g/l in the ready-to-use product:

840 g/l for APP Klarlack X Gloss.

Maximum VOC content g/l in the ready-to-use product:

500 g/l for APP Klarlack X Gloss.

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