

TECHNICAL INFORMATION

Date of preparation:
29 January 2023



Date updated:
12 June 2026

1 site 5

Product name: two-component acrylic clear coat
APP Klarlack UHS 410 New Formula.
APP No.: 020137-1.0 L and 020138-5.0 L.

A low-emission, fast-drying, two-component premium acrylic clear coat. It has an increased solids content of up to 59% and a VOC content of less than 410 g/l. Optimised drying times make it suitable for both spot repairs and full vehicle refinishing. It offers excellent flow properties. It is easy to apply and polish. It guarantees a high gloss finish and the colour retention of the base coat.

Packaging.	Paint – 1.0 L, 5.0 L; hardener – 0.5 L, 2.5 L.
Product and accessories.	APP Klarlack UHS 410 New Formula – clear coat, APP Harter Klarlack UHS 410 Slow – hardener with extended curing time, APP Klarlack UHS 410 New Formula – clear coat, APP Harter Klarlack UHS 410 Normal – hardener with standard curing time, APP Harter Klarlack UHS 410 Fast – hardener with a short curing time.
Special additives.	APP Loser – a thinner for blending, APP Anti-Silicone – additive to neutralise the effects of silicone contamination.
Basic components.	APP Klarlack UHS 410 New Formula – acrylic resin, APP Harter Klarlack UHS 410 – isocyanate hardeners.
Colour.	Transparent, colourless, high-gloss.
Specific gravity.	1.00 kg/dm ³ at +20°C.
Coverage.	9 m ² /l for 2 x 1 (50-μ m of dry film). 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.
<u>Application</u>	Intended for the repair of components and entire vehicles as a high-quality Premium topcoat in multi-layer bodywork refinishing systems. For use with water-based and organic (conventional) base coats.
<u>Substrate</u>	Water-based and conventional base coats, old paint coatings.

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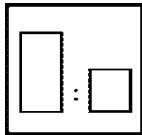
Substrate preparation.

Before spraying, clean the painted surface of loose and dried-out base coat dust using an APP SAS dust-absorbing cloth. Dry-sand the old coating with P800 or APP PM07 matting paste using APP WS222 grey or gold abrasive fleece, then clean off dust and degrease.

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 ratios.



A) For temperatures above +18°C:

2 parts by volume	APP Klarlack UHS 410 New Formula
1 part	APP Harter Klarlack UHS 410 Slow

B) For temperatures above +18°C:

2 parts by volume	APP Klarlack UHS 410 New Formula
1 part	APP Harter Klarlack UHS 410 Normal

C) For temperatures below +18°C:

2 parts	APP Clear Coat UHS 410 New Formula
1 part	APP Hard Clear Coat UHS 410 Fast

D) Mixing ratios by weight:

100	APP Clear Coat UHS 410 New Formula
52	APP Hard Clear Coat UHS 410

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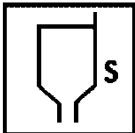


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3 site 5

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Volume of finished product for 0% thinner addition	Mixing ratios by weight		
	APP Clear Coat UHS 410 New Formula	APP Hard Clear Coat UHS 410	(optional) APP Acrylic Thinner
	100	51.50	5%
[L]	[g]	[g]	[g]
0.1	66.7	34.3	2.90
0.2	133	68.7	5.81
0.3	200	103	8.71
0.4	267	137	11.6
0.5	333	172	14.5
0.6	400	206	17.4
0.7	467	240	20.3
0.8	533	275	23.2
0.9	600	309	26.1
1.0	667	343	29.0



Spray viscosity at +20°C: 18–19 s 4 mm CF.

Warning!

Use only hardeners for acrylic paint

APP Harter Klarlack UHS 410.

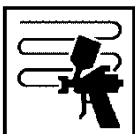
Do not exceed the recommended hardener dosage.

If necessary, add 2 to 5% APP Anti-Silicone.

Application.



Apply using a spray gun fitted with a nozzle
ø1.2–ø1.4 mm at an air pressure of 2.0 to 2.5 bar.



Number of coats: 2 x 1.

Dry film thickness: 50–60 µm (2 x 1).

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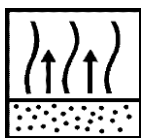
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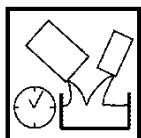
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4 site 5

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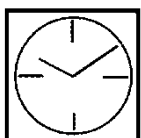


Flash-off time between coats at +20°C:
- 5–10 minutes.



Pot life of the ready-to-use paint mixture:
- 1.0–1.5 hours.

Drying.



At +20°C:
Dust-dry: 15 minutes.
Touch dry: 1.0 hour
Ready for installation: 1.5–2.5 hours.
Polishable: 5.0 hours.



At +60°C:
Polishable: 1.0 hour after cooling.
IR lamp:
Pulsed (flash off): 3–4 minutes.
Continuous (full bake): 6–8 minutes.

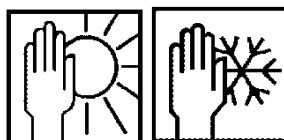
Polishing.



After 5 hours at +20°C, defects and inclusions can be removed using abrasive materials, and the surface can be polished:
- manually using wet sandpaper P1500-3000
- by machine using P1500-3000 abrasive.

Cleaning the equipment. Nitrocellulose or acrylic solvent.

Storage



Store in sealed original containers in a dry, well-ventilated room at a temperature between +5°C and +30°C.

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Health and safety regulations



For professional use only.

See: text on product labels or in the

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

VOC

Permissible VOC content (g/l) in the ready-to-use product:

420 g/l for APP Klarlack UHS 410 New Formula.

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

410 g/l for APP Klarlack UHS 410 New Formula.

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