

TECHNICAL INFORMATION

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07.12.2021



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Modular Industrial Line **Product name: polyurethane topcoat with gloss** **APP Lack PUR 30-200 Gloss 4:1. APP No.: 0270118.**

Two-component smooth polyurethane lacquer with high gloss. Intended for painting commercial vehicles, tractor trailers, tanks, machine parts, buses and trams. Highly resistant to mechanical influences, impacts and scratches, as well as chemical agents: acids and alkalis in low concentrations, grease and petrol.

Product and accessories. APP Lack PUR 30-200 Gloss,
APP Hardener PUR 30-710,
APP Thinner Universal 30-810.

Basic ingredients. APP Lack PUR 30-200 Gloss – polyurethane binder, pigment paste and additives,
APP Hardener PUR 30-710 – isocyanate hardener: fast/FAST, standard/STANDARD and slow/SLOW
APP Thinner Universal 30-810 – universal thinner.

Colour. High-gloss colours made according to formulas included in APP Modular Industrial Line.
APP 0270118 – 30 + 70 (pigment paste + binder)

Surface texture. Smooth.

Gloss. >94 for 60°, 90 for 20°

Adjustment of gloss by mixing Lack PUR 30-200 Gloss with Lack PUR 30-200 Matt.

Lack PUR 30-200 Gloss	Lack PUR 30-200 Matt	Hardener PUR 30-710	Gloss 60°	Category
100	0	4:1	> 95	Gloss
75	25	4:1	85-95	Gloss
50	50	4:1	75-85	Semi-Gloss
40	60	4:1	60-75	Satin
25	75	4:1	40-50	Satin
0	100	4:1	< 10	Matt

The degree of gloss/matt depends on the colour, amount of thinner, dry layer thickness, substrate and drying temperature.

Specific weight. 1.0 kg/L at 20°C

Binder solids content. 44-50% (by weight)
40-45% (by volume)

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Solids content of ready-to-use lacquer without thinner. 49-55% (by weight)
40-45% (by volume)

Resistance.

- 1440 h – salt chamber test,

Theoretical efficiency. For binder:

- 650-850 m²/L for 1 µm dry layer.

For ready-to-use paint without thinner:

- 400-450 m²/L for 1 µm dry layer.

Note!

In practice, efficiency depends on factors, such as the shape of the object, the roughness of the substrate, the application method and the working conditions.

Corrosion protection class according to ISO 12944. For APP Primer EP 30-620 + APP Lack PUR 30-200 Gloss (240µm + 60µm):

- for corrosion class C5, durability H (15 to 25 years).

Application. Intended for painting commercial vehicles, tractor trailers, tanks, machine parts, buses and trams.

Advantages

- High gloss, good mechanical resistance, hardness and elasticity.
- For the desired gloss level, it is miscible with APP Lack PUR 30-200 Matt.
- Easy preparation and application.
- Recommended for a wide range of industrial applications.
- Good quality finish and good weather and UV resistance.
- It has a high chemical resistance to engine oil, diesel and H₂SO₄, NaOH and HCl solutions in low concentrations.

Substrate Pre-sanded factory coatings.
Surfaces coated with:

- epoxy primers, e.g. APP Primer EP 30-620, APP Grund EP, APP Grund EP Spray,

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Substrate cont.

- polyurethane primers, e.g. APP Primer PUR 30-630,
- insulating and adhesive primers, e.g. APP Sealer PUR 30-640,
- acrylic primers, e.g. APP Acrylfiller 401, APP Acrylfiller 501, APP Acrylfiller Rapid, APP Acrylfiller Compact,
- single-component fillers, e.g. APP Primer Filler, APP Primer Filler Spray
- insulating and filling primer APP Smart Primer Spray,
- adhesion primers, e.g. APP Kunststoff Primer, APP Kunststoff Primer Spray.

Substrate preparation.



Existing finishes.

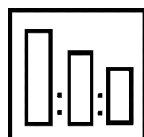
- Dry sand with P320-P360 abrasive paper. Hand sanding finish with sandpaper on a P500-P600 sponge.
- Sand by hand with P600-P800 waterproof sandpaper.

Before spraying APP Lack PUR 30-200 Gloss, clean the lacquered surface of dust and degrease it with APP WB910, APP W911 or APP W900 remover using APP Premium cleaner.

For final dust removal, use APP SAS or APP SAS Aqua dust-absorbing cloths. Optionally, dry sand the APP Primer EP 30-620 and APP Primer PUR 30-630 primers with P320 machine.

Application

Mixing ratios.



Volume mixing ratios for temperatures of 18-25°C:

- | | |
|------------------|--|
| 4 volumes | APP Lack PUR 30-200 Gloss |
| 1 volume | APP Hardener PUR 30-710 <ul style="list-style-type: none">• small surfaces – FAST/STANDARD• large surfaces – STANDARD |
| 5-10%
max 30% | APP Thinner Universal 30-810 |

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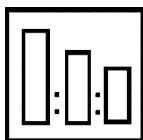


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Mixing ratio.
cont.



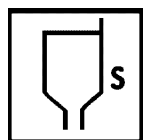
Volume mixing ratios for temperatures >25°C:

4 volumes APP Lack PUR 30-200 Gloss

1 volume APP Hardener PUR 30-710

- small surfaces – STANDARD
- large surfaces – slow/SLOW

5-10% APP Thinner Universal 30-810
max 30%



Spray viscosity at +20°C: 20-23 s F/4.

Note!

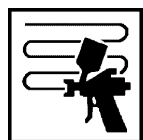
Use only APP Hardener PUR 30-710.

Do not exceed the recommended hardener amount.

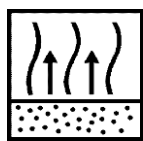
Application.



Apply with a spray gun equipped with a $\varnothing 1.3$ - $\varnothing 1.5$ mm nozzle at an air pressure of 2.0 to 3.0 bar.

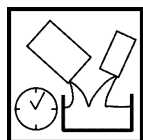


Number of layers: 2 x 1.
Dry coating thickness: 50-60 μm .



Evaporation time between coats at +20°C:

- 5-10 minutes.



Shelf life of ready-to-use paint mixture:

- 8 hours.

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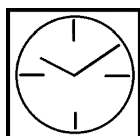


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Drying.



At +20°C:

Manipulability: 6 h – 8 h.
Cross-slip hardening: 12 h – 15 h.



At +60°C:

Cross-slip hardening: 40-45 min.

IR radiator: 25-35 min.

The coating achieves its full performance properties after a seasoning period, i.e. after 10 to 15 days at 18-22°C.

Sanding.



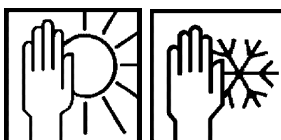
After 24 hours at +20°C it is possible to polish and remove defects and inclusions with abrasives:

- by hand, wet with P1500-5000 abrasive,
- by machine using P1500-5000 abrasive.

Equipment cleaning.

Nitrocellulose, PUR or acrylic solvent.

Storage



Store in closed original packaging in a dry and well-ventilated room, at +5°C to + 30°C.

Protect from frost and direct sunlight.

OHS regulations



For professional use only.

See text on product labels or SDS.

The user must comply with the OHS regulations in force in the country concerned.

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