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TECHNICAL DATA SHEET

2K MULTI-SURFACE PAINT GLOSS

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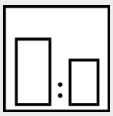
Intended use

PaintNuts 2K Multi-Surface Paint is a high-performance, two-component coating engineered for maximum durability and long-term protection. Available in satin, gloss, or matt finishes and colour-matched to your requirements, it gives you complete control over the final look. Its advanced 2K chemistry ensures exceptional resistance to UV rays, weathering, and chemicals, making it ideal for automotive refinishing and tough industrial environments. Suitable for metal, wood, plastic, and masonry, this hard-wearing paint delivers a flawless, professional finish with outstanding protection. A separate hardener must be added before use.

Processing instructions



Mixing ratio

hardener	by weight (lacquer : hardener)	by volume (lacquer : hardener)
PU 900-25, PU 912-XX, PU 933-10, PU 950-25	4 : 1	3 : 1
PU 914-XX	6 : 1	5 : 1
PU 916-XX	7 : 1	6 : 1
A 60	10 : 1	8 : 1

Hardener

Mipa PU 900-25, PU 912-10, PU 912-25, PU 912-40, PU 933-10, PU 950-25

Mipa PU 914-10, PU 914-25, PU 914-40

Mipa PU 916-10, PU 916-25

Mipa PUR Plus Hardener A 60

Pot life

with hardener -10 approx. 1,5 h at 20 °C

with hardener A 60 approx. 8 h at 20 °C

Thinner

Mipa 2K-Verdünnung V 10, V 25, V 40

Processing viscosity

gravity spray gun	Airmix/Airless
20 - 25 s 4 mm DIN	25 - 35 s 4 mm DIN

Version: en 19/1224

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Application mode

application mode	hardener	pressure (bar)	nozzle (mm)	spray passes	dilution
gravity spray gun/ HVLP	PU 900 / 912 / 933 / 950	2,0 - 2,5	1,2 - 1,3	2 - 4	15 - 20 %
gravity spray gun/ HVLP	PU 914 / 916	2,0 - 2,5	1,5 - 2,0	1 - 3	0 - 5 %
Airmix / Airless compound pressure (recommendation)	PU 912-40	1,0 - 2,0 120	Wagner 9/60 (0,23)	1	5 - 15 % 2K-Vdg. V40
Airmix / Airless compound pressure	PU 900 / 912 / 933 / 950	1,0 - 2,0 100 - 120	0,23 - 0,28	1	0 - 10 %
Airmix / Airless compound pressure	PU 914 / 916	1,0 - 2,0 100 - 120	0,23 - 0,28	1	0 - 5 %
brush, roller*	A 60	--	--	--	0 - 5 %

Drying time

hardener	object temperature	dust dry	set to touch	ready for assembly	sandable	recoatable
-10	20 °C	15 - 30 min	2 - 3 h	12 h	--	--
-10	60 °C	--	20 min	30 - 40 min	--	--
-25	20 °C	30 - 45 min	3 - 4 h	16 h	--	--
-25	60 °C	--	30 min	45 min	--	--
-40 / A 60	20 °C	1,5 - 2 h	8 - 10 h	24 h	--	--
-40 / A 60	60 °C	--	--	1 h	--	--
PU 933-10	20 °C	1,5 - 2 h	2 - 3 h	12 h	--	--

Fully cured after 7 - 8 days (20 °C).

Note

Characteristics:

binder base:	polyurethane-acrylic system
solids content (% by weight):	~ 67
solids content (% by volume):	~ 51
delivery viscosity DIN 53211 4 mm (in s):	thixotropic
density DIN EN ISO 2811 (kg/l):	~ 1,3
gloss level ISO 2813 at 60° (GU):	> 80 gloss

Properties:

Long open time, high-build coating
Electrostatic application possible
Highly resistant to water
Highly UV- and weather-resistant
Heat resistance:
- Short-term heat exposure: 180 °C
- Permanent heat exposure: 150 °C
Adhesion on steel, zinced substrates and glass
Adhesion on aluminium: Gt 1

Theoretical spreading rate:

~ 45,9 m²/kg, 10:1 by weight with A 60, for 10 µm dry film thickness.
~ 53,7 m²/l, 10:1 by weight with A 60, for 10 µm dry film thickness.
~ 40,3 m²/kg, 4:1 by weight with PU 900-25, for 10 µm dry film thickness.
~ 45,6 m²/l, 4:1 by weight with PU 900-25, for 10 µm dry film thickness.

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Storage:

For at least 3 years in the unopened original container. Optimum storage conditions between + 5 °C and + 25 °C, avoid direct sunlight. Other storage conditions may lead to undesirable properties of the material.

VOC:

< 400 g/l.**

Processing conditions:

From + 10 °C and up to 80 % relative humidity. Ensure adequate air ventilation.

Substrate preparation:

Remove oil, grease, rust, mill scale, rolling skins, as well as other substances impairing the function of the coating!

Attention: A direct adhesion cannot be taken as granted due to most different kinds of metals, alloys, metallic and conversion coatings and so on. The adhesion must therefore be tested on the original substrate.

Steel:
- Blast to cleaning degree Sa 2½, remove blast residues and overcoat promptly.
- De-rust with hand and power tools to degree of cleanliness St 3.
- Degrease with Mipa WBS Reiniger or Mipa Silikonentferner.

Zinced substrates:
- Clean the surface with the ammonia solution Mipa Zinkreiniger.
- Sweep blast.

Aluminium:
- Degrease with Mipa 2K-Verdünnung, sand thoroughly with sandpaper P 360/400 and clean subsequently with Mipa Silikonentferner.

Powder-coated and coil-coated facade elements:
- Preclean with Mipa WBS Reiniger, wash with water and clean again with Mipa Silikonentferner and in case of chalking old paintworks apply Mipa Tiefgrund LH to consolidate the substrate.

Glass:
1. Before coating, it is indispensable to determine definitely the recoatable glass surface (e.g. by means of an appropriate measure device to determine the tin side of float glass) because it is generally impossible to coat the side which came in contact with the tin bath.
2. Degrease with Mipa WBS Reiniger or Mipa Silikonentferner.

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Proposed coating structure:

Single coat system
Steel, zinced substrates, aluminium:
PU 250-90 with 60 - 70 µm dry film thickness.

2-coat system
Steel, zinced substrates, aluminium:
Priming coat: ***EP 100-20 with 50 - 70 µm dry film thickness or 25 - 30 µm dry film thickness on aluminum.
Finishing coat: PU 250-90 with 50 - 60 µm dry film thickness.

Powder-coated or coil-coated facade elements:
Primer for spot repair: *EP 100-20 with 50 - 70 µm dry film thickness.
Finishing coat: PU 250-90 with 60 - 80 µm dry film thickness.

Glass:
Pretreatment: 1K-Glasprimer.
Finishing coat: PU 250-90, incl. PU 950-25, with 50 - 60 µm dry film thickness.

Single coat system
Glass:
PU 250-90, incl. PU 950-25, with 50 - 60 µm dry film thickness.
Note: In areas with increased mechanical and/or moisture exposure a pretreatment with Mipa 1K-Glasprimer is prescribed.

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Special notes:

*Suitable: e.g. mohair, nap, velour, Glattfilt, Rolloplan, foam paint roller.

**This product contains the following maximum VOC-values:
- Applied by brush/ roller with hardener Härter A 60: < 400 g/l of VOC.
- Applied by spraying with hardener PU 914-XX, PU 916-XX: < 420 g/l of VOC.
- Applied by spraying with hardener PU 900-25, PU 912-XX, PU 933-10, PU 950-25: < 500 g/l of VOC.

***Further Mipa primers are available. Please contact your technical adviser or our application technicians.

For professional use only.

The details of the paragraphs - Proposed coating structure, Characteristics, Theoretical spreading rate, VOC - refer to the colour shade RAL 7035. For other colour shades, these may deviate.

Especially UV-resistant pigmentations (e.g. pastel shades for facades) are available on demand.

Furthermore it's possible to mix it with neon colours which can be applied then as single-layer. Please see the technical data sheet "Mipa Neon-Farbtöne PMI single-layer paints"

Check colour before use.

In case of application by means of an Airmix/Airless device, it is recommended testing beforehand the equipment for its suitability. If micro foam or blistering emerge during the application with an Airmix/Airless device, it is recommended adding more thinner or using the additives 2K-Systemzusatz PUA and PUS. Furthermore, the film thickness should be kept as low as possible.

To optimise the flow properties and to reduce blistering when applying by roller, we recommend adding 5% of Mipa 2K-Systemzusatz PUS before the crosslinking.

Mipa PU 250-90 can also be applied on mineral substrates. Please observe technical data sheet Mipa PU 250-70 Fußbodenbeschichtung to get more information about application and properties.

If required we also offer hardeners and cleaning agents that are suitable for 2-component mixing and dosing units. Please contact your technical adviser or our application technicians.

Depending on the hardener in use and on the processing condition, the gloss level may prove to be higher or lower. The mentioned data refer to the hardener of series: PU 900-25, PU 912-XX, PU 933-10, PU 950-25.

Cleaning of tools:

Clean tools immediately after use with Mipa Nitroverdünnung.

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