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TECHNICAL DATA SHEET

2K MULTI-SURFACE PAINT MATT

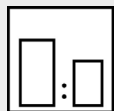
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Intended use

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

PU 900-25, PU 912-XX,
PU 933-10, PU 950-25

PU 914-XX

PU 916-XX, A 60

by weight (lacquer : hardener)

5 : 1

8 : 1

10 : 1

by volume (lacquer : hardener)

4 : 1

6 : 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-Härter 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

20 - 25 s 4 mm DIN

Airmix/Airless

30 - 40 s 4 mm DIN



Application mode

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 - 2,2	1,5 - 2,0	1 - 3	0 - 5 %
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 %

Version: en 14/1224

This technical data sheet is supplied for informational purposes only! According to our information, all data and recommendations correspond to the state of art and are based on years of experience in manufacturing our products. They do not exempt the user from his obligation to verify professionally, on his own responsibility, the suitability of our products to the intended purpose under prevailing conditions. Safety data sheets and warnings on packaging must be observed. We reserve the right to modify and to complete the information content at any time, without prior notice or obligation to update.

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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): ~ 77
 solids content (% by volume): ~ 59
 delivery viscosity DIN 53211 4 mm (in s): thixotropic
 density DIN EN ISO 2811 (kg/l): ~ 1,5
 gloss level ISO 2813 at 60° (GU): 10 - 20 matt

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, zinc substrates and glass
 Adhesion on aluminium: Gt 1

Theoretical spreading rate:

~ 42,4 m²/kg, 10:1 by weight with A 60, for 10 µm dry film thickness.
 ~ 50,1 m²/l, 10:1 by weight with A 60, for 10 µm dry film thickness.
 ~ 37,1 m²/kg, 5:1 by weight with PU 900-25, for 10 µm dry film thickness.
 ~ 50,1 m²/l, 5:1 by weight with PU 900-25, for 10 µm dry film thickness.

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:

< 360 g/l.**

Processing conditions:

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

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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.

Zinc 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.

Proposed coating structure:

Single coat system

Steel, zinc substrates, aluminium:

PU 250-10 with 60 - 70 µm dry film thickness.

2-coat system

Steel, zinc substrates, aluminium:

Priming coat: ***EP 100-20 with 50 - 70 µm dry film thickness or 25 - 30 µm dry film thickness on aluminium.

Finishing coat: PU 250-10 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 250-10 with 60 - 80 µm dry film thickness.

Glass:

Pretreatment: 1K-Glasprimer.

Finishing coat: PU 250-10, incl. PU 950-25, with 50 - 60 µm dry film thickness.

Single coat system

Glass:

PU 250-10, 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.

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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.

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.