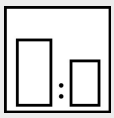
WPU 2425-30 WBS 2K PU Topcoat satin matt

Intended use

High-quality waterborne glossy 2K polyurethane paint that provides particularly high resistance to chemical agents and UV. Especially suitable for coatings on vehicles, metal facades as well as machines and constructions exposed to high strain. Its very slow initial drying and the related very good spray mist absorption render the product perfect for application on large surfaces.

Processing instructions



Mixing ratio

hardener	by weight (lacquer : hardener)	by volume (lacquer : hardener)
WPU 9425-25	4 : 1	4 : 1

Hardener

Mipa WPU 9425-25

Pot life

3,5 h at 20 °C*

Thinner

Mipa WBS VE-Wasser

Processing viscosity

Always stir first the hardener in the paint and then thin by adding Mipa WBS VE-Wasser. Never mix water with the hardener.

gravity spray gun	Airmix/Airless
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Application mode

application mode	hardener	pressure (bar)	nozzle (mm)	spray passes	dilution
gravity spray gun/ HVLP	--	2,0 - 2,5	1,2 - 1,3	2	20 - 25 %
Airmix / Airless	--	100 - 120	0,23 - 0,28	1 - 2	0 - 10 %

Drying time

hardener	object temperature	dust dry	set to touch	ready for assembly	sandable	recoatable
--	20 °C	1 - 1,5 h	8 - 10 h	24 h	--	--
--	60 °C	--	1,5 h	1,5 h	--	--

Fully cured after 7 - 8 days (at 20 °C).

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Note

Characteristics:	binder base:	polyurethane polyester system
	solids content (% by weight):	46 - 54
	solids content (% by volume):	35 - 36
	delivery viscosity DIN 53211 4 mm (in s):	thixotropic
	density DIN EN ISO 2811 (kg/l):	1,2 - 1,4
	gloss level ISO 2813 at 60° (GU):	20 - 30 satin gloss

Properties:

high water resistance
highly UV- and weather-resistant
highly resistant to solvents
scratch-resistant
excellent resistance to chemical and mechanical strains
heat resistance:
- short-term heat exposure: 180°C
- permanent heat exposure: 150°C

Theoretical spreading rate:

23,7 - 27,5 m²/kg for 10 µm dry film thickness
30,0 - 31,2 m²/l for 10 µm dry film thickness

Storage:

for at least 2 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:

EU limit value according to Directive 2004/42/EC for this product (category B/d): 420 g/l.
This product contains the following maximum VOC-values:
applied by spraying with hardener WPU 9425-25: < 210 g/l of VOC

Processing conditions:

from+ 10 °C and up to 70 % 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 metal 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

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Proposed coating structure:

steel, zinced substrates:
priming coat: **WEP 1000-20 with 60 - 80 µm dry film thickness
finishing coat: WPU 2425-30 with 50 - 60 µm dry film thickness

aluminium:
priming coat: **WEP 1000-20 with 25 - 30 µm dry film thickness
finishing coat: WPU 2425-30 with 50 - 60 µm dry film thickness

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

Special notes:

For professional use only.

Paints that have been tinted with aluminium pastes must be protected from heat. Store at max. 35° C. Failure to take this into account may lead to an internal pressure build-up.

*Attention: The end of pot life does not manifest itself by viscosity increase. Exceeding the pot life results in a lower resistance to mechanical and chemical strains, in a reduction of gloss and in a higher tendency to blister.

Drying times reduce with increasing air velocity and degreasing relative humidity. When drying with air guns, the drying time can be reduced considerably. Optimum processing conditions:
air temperature 20-25°C
object temperature > 15°C
relative air humidity 40-60 %
air velocity >0,4 m/s

Check colour shade prior to application.

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

Cleaning of tools:

Clean tools immediately after use with Mipa WBS-Pistolenreiniger.

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

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