PU 300-70 2K PU Texture Topcoat satin gloss

Intended use

2K polyurethane acrylic texture paint for industrial coating of machines, components, constructions, steel lockers and tools. For interior and exterior use.

Processing instructions

Mixing ratio

hardener	by weight (lacquer : hardener)	by volume (lacquer : hardener)
A 61, A 51	5 : 1	4 : 1

Hardener

Mipa 2K Structure Hardener A 61

Mipa 2K Structure Hardener A 51

Pot life

with hardener A 61 ca. 1 - 2 h at 20 °C

with hardener A 51 ca. 1 - 2 h at 20 °C

Thinner

Mipa 2K-Verdünnung V 10, V 25, V 40

Processing viscosity

Ready for use after adding hardener, if necessary thin with Mipa 2K-Verdünnung.

gravity spray gun	Airmix/Airless
thixotropic	thixotropic

Application mode

application mode	hardener	pressure (bar)	nozzle (mm)	spray passes	dilution
gravity spray gun/ HVLP	--	1,6 - 2,0	1,8 - 3,0	2	0 %
paint pressure gun compound pressure	--	2,0 - 2,5 0,5 - 0,8	1,8 - 3,0	1 - 2	0 %
Airmix / Airless compound pressure	--	1,0 - 2,0 100 - 120	0,41 - 0,54	1	0 %

Drying time

hardener	object temperature	dust dry	set to touch	ready for assembly	sandable	recoatable
--	20 °C	25 - 30 min	5 - 6 h	24 h	--	--
--	60 °C	--	--	30 min	--	--

Fully cured after 5 - 6 days (at 20 °C).

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Note

Characteristics:	binder base:	polyurethane acrylic system
	solids content (% by weight):	~ 71
	solids content (% by volume):	~ 53
	delivery viscosity DIN 53211 4 mm (in s):	thixotropic
	density DIN EN ISO 2811 (kg/l):	~ 1,4
	gloss level ISO 2813 at 60° (GU):	satin gloss *

Properties:

Free from silicone
Electrostatic application possible
Highly UV- and weather-resistant
Very good resistance to water
Highly resistant to solvants, fuels and oils
Heat resistance: - Short-term heat exposure: 180 °C
- Permanent heat exposure: 150 °C
Adhesion on steel
Adhesion on zinced substrates: Gt 0 - 1
Adhesion on aluminium: Gt 2

Theoretical spreading rate:

~ 44,7 m²/kg, 5:1 by weight with A 61, for 10 µm dry film thickness.
~ 54,5 m²/l, 5:1 by weight with A 61, for 10 µm dry film thickness.
~ 44,7 m²/kg, 5:1 by weight with A 51, for 10 µm dry film thickness.
~ 50,9 m²/l, 5:1 by weight with A 51, 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:

< 430 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.

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Proposed coating structure:

Single coat system
Steel, zinced substrates:
PU 300-70 with 50 - 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 with 25 - 30 µm dry film thickness on aluminum.
Finishing coat: PU 300-70 with 50 - 70 µm dry film thickness.

Special notes:

*Due to the special surface, a measurement according to DIN EN ISO 2813 is inappropriate!

**This product contains the following maximum VOC-values:
- Applied by spraying with hardener A 61, A 51: < 430 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.

For exterior use, we recommend using Mipa 2K-Struktur-Härter A 61.

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.

Spray distance and pressure change the texture:
Low pressure = rough texture
Large distance = rough texture
High pressure = fine texture
Small distance = fine texture

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.

Cleaning of tools:

Clean tools immediately after use with Mipa Nitroverdünnung.

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