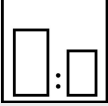








Intended use

2K-polyurethane acrylic paint with long open time for the top quality coating of mineral floors in garages, warehouses or parking garages. Also suitable for exterior use (e.g. balconies). Optionally applicable as smooth coating or as coating with non-slip properties.

Processing instructions

	Mixing ratio					
	hardener	by weight (lacquer : hardener)	by volume (lacquer : hardener)			
	A 60	10 : 1	8 : 1			
	Hardener					
	Mipa PUR Plus-Härter A 60					
	Pot life					
	with hardener A 60 ca. 6 - 8 h at 20°C					
	Thinner					
	Mipa 2K-Verdünnung					
	Spray viscosity					
	gravity spray gun		Airmix/Airless			
	–		–			
	Application mode					
	application mode	hardener	pressure (bar)	nozzle (mm)	spray passes	dilution
	brush, roller*	–	–	–	–	0 - 10 %
	*suitable : short pail paint roller e.g. velour; unsuitable: –					
	Drying time					
	hardener	object temperature	dust dry	set to touch	ready for assembly	sandable recoatable
	–	20 °C	1,5 - 2 h	8 - 10 h	24 h	– ca. 12 h

Fully cured after 7 - 8 days.

Note

Characteristics:	binder base:	polyurethane acrylic system
	solids content (% by weight):	71 - 76
	solids content (% by volume):	54 - 59
	delivery viscosity DIN 53211 4 mm (in s):	thixotropic
	density DIN EN ISO 2811 (kg/l):	1,4 - 1,5
	gloss level ISO 2813 at 60° (GU):	20 - 30 satin matt

- Properties:** long open time, high-build application
highly UV- and weather-resistant
very good resistance to water, solvent resistant
resistant to plasticizers and adapted to fork lift traffic
applicable by brushing or rolling
heat resistance:
- short-term heat exposure: 180°C
- permanent heat exposure: 150°C
adhesion on concrete
- Theoretical spreading rate :** 40,6 - 42,2 m²/kg, 10:1 by weight with A 60, for 10 µm dry film thickness
56,7 - 60,6 m²/l, 10:1 by weight with A 60, for 10 µm dry film thickness
- Storage:** at least 3 years in unopened original container.
- VOC Regulation :** EU limit value according to Directive 2004/42/EC for this product (category A/j): 500 g/l
This product contains the following maximum VOC-values:
applied by brushing/ rolling with hardener A 60: < 400 g/l of VOC
- Processing conditions:** Do not apply at a temperature below +10 °C and above +30 °C (object temperature).

The substrate temperature must be minimum 3°C above the dew point temperature of the air during the application and drying process (DIN EN ISO 12944-7).

The relative air humidity must not exceed 80%.

Ensure adequate air ventilation.

Application of primer and paint should only be done at constant or decreasing temperatures to reduce the risk of blistering due to air heating in the pores of the substrate. (This also applies to all indoor application that are exposed to the sun).

Substrate preparation:

Substrate characteristics:

- mineral substrates (set, dimensionally stable, rough and solid) must be free from friable parts and other substances that may affect the adhesion (e.g. rubber marks, greases, oils, rust, dust and similar)
- The equilibrium moisture content must have been achieved (concrete, cement screed < 4% by weight, anhydrite screed < 0.3% by weight, magnesite floor < 4% by weight).
- The bond strength must be > 1.5 N/mm².
- The compression strength of the substrate must be > 25 N/mm².
- Ensure perfect insulation against earth moisture.

Check for laitance or brittle, non-adherent layers:

- by scratching the surface with a sharp device or a needle at different spots.

Result:

- brittle layer of approx. 1mm underneath a thin hard surface

Repair:

- Remove area mechanically by shot-blasting or milling to a solid substrate.
- Remove area by acid washing (apply a solution of hydrochloric acid (10%), then wash again with clear water) to a solid substrate.

Check for dense concrete surfaces (smooth, hard and almost "shiny"):

- Test the absorbency by scratching and wetting at different spots.

Result:

- Only the scrapes become darker (indicates the absorption) and the area around the scratches show no absorption.

Repair:

- These dense layers must be removed mechanically by shot-blasting or milling until perfect absorbency is achieved.
- Remove area by acid washing (apply a solution of hydrochloric acid (10%), then wash again with clear water) until perfect absorbency is achieved.

Oil, grease, wax and residues of soapsuds:

- Wash by using a cleaning agent (do not use products which contain care additives such as wax, silicone, a.s.o.) and repeat the operation if necessary.
- Sometimes deep penetrated substrates are impossible to clean. Remove by milling heavily contaminated areas and renew.

The pores have to be open and free of dust:

- Clean the surface by using a powerful industrial vacuum cleaner. This is particularly important when the floor has been treated mechanically.

Old paintworks:

- Sand slightly well adherent 2K-coatings. Test compatibility (on a sample area).
- Damaged coatings must be removed completely (mechanically or by paint remover).

Proposed coating structure:

smooth coating

- 1 x priming coat: PU 250-30 with hardener, thinned with 20 - 30 % 2K-Verdünnung
- 2 x finishing coat: PU 250-30 with hardener, thinned with 0 - 10 % 2K-Verdünnung
- 80 - 120 µm total film thickness

non-slip coating

- 1 x priming coat: PU 250-30 with hardener, thinned with 20 - 30 % 2K-Verdünnung
- 1 x intermediate coat: PU 250-30 with hardener + 10 - 30 % by weight Mipa Grip Substrat + 0 - 10 % 2K-Verdünnung
- 1 x finishing coat: PU 250-30 with hardener, thinned with 0 - 10 % 2K-Verdünnung
- 80 - 120 µm total film thickness

Special notes:

For professional use only.

Check colour shade prior to application.

Mix the hardener with product using a low speed electric stirrer (< 400 rpm). Transfer the mixture in another container and stir again thoroughly. Make sure that both components have been mixed sufficiently - if not, this could result in staining and in changing the drying properties.

In case of very alkaline substrates (e.g. fresh concrete or screed) apply a priming coat with Mipa EP 200-XX (+ 20% EP Verdünnung).

In case of adjacent surfaces use only the material of on batch number or intermix different batches to obtain the required quantity.

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 933-XX, PU 950-25, H, MS.

Cleaning of tools:

Clean tools immediately after use with Mipa Nitroverdünnung.