

Intended use

This 1K filler with excellent filling properties can be applied to slightly sanded 2K old paintworks, shop primers and directly to steel, zinc substrates, aluminium, MDF (untreated as well as coated with primer or lacquer foil) and to plastics commonly used in automotive industry (test application is required). This product offers enormous time-savings due to fast drying and sandability. Recoatable with water-based or solvent-based Mipa 1K and 2K paints.

Processing instructions

	Mixing ratio					
	hardener		by weight (lacquer : hardener)	by volume (lacquer : hardener)		
	—		—	—		

	Hardener					
	—					

	Pot life					
	—					

	Thinner					
	Mipa 2K-Verdünnung					
	Mipa UN Verdünnung					
	Mipa Verdünnung UN 21					

	Spray viscosity					
	gravity spray gun		Airmix/Airless			
	20 - 25 s 4 mm DIN		30 - 40 s 4 mm DIN			

	Application mode					
	application mode	hardener	pressure (bar)	nozzle (mm)	spray passes	dilution
	gravity spray gun/ HVLP	—	2,0 - 2,2	1,3 - 1,8	2 - 3	50 - 70 %
	Airmix / Airless	—	100 - 120	0,23 - 0,33	1	10 - 20 %

	Drying time						
	hardener	object temperature	dust dry	set to touch	ready for assembly	sandable	recoatable
	—	20 °C	15 - 20 min	45 - 60 min	ca. 1h	wet sanding after approx. 45 min, dry sanding after approx. 1.5 - 2 h	30 min
	—	60 °C	—	30 min	30 min	30 min	—

Fully cured after 2 - 3 days (at 20 °C).

Note

Characteristics:	binder base:	one-component special resins
	solids content (% by weight):	46 - 50
	solids content (% by volume):	28 - 30
	delivery viscosity DIN 53211 4 mm (in s):	thixotropic
	density DIN EN ISO 2811 (kg/l):	1,1 - 1,3
	gloss level ISO 2813 at 60° (GU):	10 - 20 matt
Properties:	fast drying, excellent filling properties can be filled in spray cans electrostatic application possible heat resistance: - short-term heat exposure: 150 °C - permanent heat exposure: 120 °C adhesion to steel, zincd substrates, aluminium, plastics and MDF	
Theoretical spreading rate :	23,1 - 27,4 m ² /kg for 10 µm dry film thickness 29,0 - 30,8 m ² /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 Regulation :	EU limit value according to Directive 2004/42/EC for this product (category B/c): 780 g/l. This product has the following maximum VOC-values: applied by spraying: < 780 g/l of VOC	
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 metal substrate. steel: - blast to cleaning degree Sa 2½, remove blast residues and overcoat promptly - degrease with Mipa WBS Reiniger or Mipa Silikonentferner - de-rust with hand and power tools to degree of cleanliness St 3 zincd 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 plastics: - clean (remove completely any mould release agents), degrease with Mipa Kunststoffreiniger, sand slightly and degrease again with Mipa Kunststoffreiniger MDF: - The substrate must be dry, proper, solid and free from grease, wax and wood dust. Pre-sand with grit P 180 – P 280 and remove dust thoroughly.	

Proposed coating structure: steel, zincd substrates, aluminium, plastics:
priming coat: VB 103-20 with 40 - 50 µm dry film thickness
finishing coat: *PU 240-XX with 50 - 60 µm ou AY 210-XX with 30 - 40 µm dry film thickness

MDF:

priming coat: VB 103-20 with 40 - 50 µm dry film thickness
finishing coat: *PU 230-XX with 50 - 60 µm dry film thickness

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

Special notes:

For professional use only.

By applying a layer of at least 50 µm, the primed objects can be stored outside for up 3 months.

Do not apply to thermoplastic substrates.

Do not recoat with products based on polyester.

To ensure a perfect insulation effect and an excellent finish, we recommend applying an insulating primer especially to edges or cut out areas of MDF-boards that have a low density.

Cleaning of tools:

Clean tools immediately after use with Mipa Nitroverdünnung.