EP 164-20 2K EP HB Primer

Technical data sheet



Intended use

High-build 2K zinc phosphate epoxy primer for steel, zinced substrates, aluminium, GRP and mineral substrates. Suitable as priming coat even for both underwater and chemical protective coatings and as intermediate coating for EP zinc dust primers. Especially suitable for airmix/ airless application.

Processing instructions

	Mixing ratio hardener EP 964-10			by we 1 : 1	ight (lacque	r : hardener)	by volume (lacquer : hardener) 		
A	Hardener Mipa EP 964-	10 2K EP I	HB Ha	rdener					
	Pot life with hardener -10 approx. 5 h at 20								
	Thinner Mipa EP-Verdünnung, Mipa EP-Verdünnung lang								
∏ s	Processing viscosity gravity spray gun 				Airmix/Airless 				
	Application application r		hard	ener	pressure (bar)	nozzle (mm)	spray passes	dilution	
	gravity spray HVLP	gun/			2,0 - 2,5	1,5 - 2,5	2 - 3	5 - 10 %	
	Airmix / Airles compound pr				1,0 - 2,0 100 - 120	0,28 - 0,33	1 - 2	0-5%	
	paint brush, re	oller			-		_	0-5%	
\bigcirc	Drying time hardener	object tempera		dust dry	set to touch	ready for assembly		recoatable	
		20 °C		25 - 35 min	3 - 4 h	10 - 12 h		1 h	
	-	60 °C			-	45 min		-	
Note									

Characteristics:	binder base: solids content (% by weight): solids content (% by volume): delivery viscosity DIN 53211 4 mm (in s): density DIN EN ISO 2811 (kg/l): gloss level ISO 2813 at 60° (GU):	epoxy resin ~ 83 ~ 70 thixotropic ~ 1,5 < 20 matt
	,	< 20 matt

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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.

MIPA SE · Am Oberen Moos 1 · D-84051 Essenbach · Tel.: +49 8703 92 20 · Fax: +49 8703 92 21 00 · mipa@mipa-paints.com · www.mipa-paints.com

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	Professional Coating Systems				
Properties:	Active corrosion protection (zinc phosphate)				
	Electrostatic application possible				
	Suitable as insulation of thermoplastic substrates				
	Applicable in thick layers (up to 300 µm DFT)				
	Very good curing also when applied in thick layers				
	Excellent resistance to chemical and mechanical strains				
	Heat resistance:				
	- Short-term heat exposure: 180 °C				
	- Permanent heat exposure: 150 °C				
	Adheres to steel, zinced substrates, aluminium and GRP				
Theoretical spreading rate:	\sim 38,6 m²/kg, 1:1 by weight with EP 964-10, for 10 μm dry film thickness. \sim 52,9 m²/l, 1:1 by weight with EP 964-10, 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:	< 260 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 withMipa 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.				
	GRP: - Clean (remove completely any mould release agents), if necessary, sand slightly and degrease with Mipa Silikonentferner.				

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Proposed coating structure:	2-coat system Steel, zinced substrates: Priming coat: EP 164-20 with 80 - 150 μm dry film thickness. Finishing coat: **PU 264-XX with 80 - 150 μm dry film thickness.		
	Aluminium, GRP: Priming coat: EP 164-20 with 50 - 70 μm dry film thickness. Finishing coat: **PU 264-XX with 80 - 150 μm dry film thickness.		
	3-coat system Steel, zinced substrates: Priming coat: EP 164-20 with 80 - 150 μm dry film thickness. Intermediate coat: EP 564-20 with 80 - 100 μm dry film thickness. Finishing coat: **PU 264-XX with 80 - 100 μm dry film thickness.		
Special notes:	*This product has the following maximum VOC-values: - Applied by spraying with 2K-EP-Dickschichthärter EP 964-10: < 380 g/l of VOC.		
	**Further Mipa topcoats 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.		
	Recoatable at the earliest after 60 min at 20 °C and at the lastest after 7 days. After drying for more than 7 days, intermediate sanding is required.		
	Due to the nature of the system, colour deviations may occur because of the colour of the hardener EP 964-10 in the Mipa Pro Mix® Industry System, especially in case of bright shades.		
	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.		
Cleaning of tools:	Clean tools immediately after use with Mipa EP-Verdünnung.		

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