EP 500-20 2K EP Mica Topcoat matt

Technical data sheet



Intended use

2K epoxy resin micaceous iron coating according to TL 918 300, sheet 87, can be used as intermediate coat within the anti-corrosion coating system for steel, zinced substrates and aluminium. Designed as intermediate coating for bridges, railings, docks, piping and structures in aggressive atmosphere as well as for areas exposed to sewage and seawater. Durable corrosion protection and decorative effect.

Processing instructions

Mixing ratio		
hardener	by weight (lacquer : hardener)	by volume (lacquer : hardener)
EP 950-XX	5 : 1	3 : 1



Hardener Mipa EP 950-10, EP 950-25



Pot life

with hardener -25 approx. 7 - 9 h at 20 °C



Thinner

Mipa EP-Verdünnung, Mipa EP-Verdünnung lang



Processing viscosity 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	1,8 - 2,0	2	10 - 15 %
Airmix / Airless compound pressure		1,0 - 2,0 100 - 120	0,33 - 0,54	1	10 - 15 %
paint brush, roller				-	5 - 10 %

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)	hardener	object temperature	dust dry	set to touch	ready for assembly	sandable	recoatable
		20 °C	45 - 55 min	4 - 5 h	10 - 12 h		1 h
		60 °C			45 min		

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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 ~ 76 ~ 48 thixotropic ~ 1,9 Matt*			
Properties:	Highly resistant to water Electrostatic application possible Excellent resistance to chemical and mechanical strains Highest corrosion protection, reistant to abrasion, viscoplastic Heat resistance: - Short-term heat exposure: 180 °C - Permanent heat exposure: 150 °C Adhesion to steel, zinced substrates and aluminium				
Theoretical spreading rate:	 ~ 31,5 m²/kg, 5:1 by weight with EP 950-25, for 10 μm dry film thickness. ~ 51,8 m²/l, 5:1 by weight with EP 950-25, 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:	< 450 g/l.**				
Processing conditions:	From + 10 °C and up to 80 % relative humidity. Ensure adequate air ventilation. Recommendation: At temperatures between + 10 and + 15 °C use the EP 950-10 hardener, at temperatures above + 15 °C use the EP 950-25 hardener.				
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 tal metals, alloys, metallic and conversion co therefore be tested on the original substra	ken as granted due to most different kinds of atings and so on. The adhesion must ate.			
	Steel: - Blast to cleaning degree Sa 2½, remove - De-rust with hand and power tools to de - Degrease with Mipa WBS Reiniger or M	blast residues and overcoat promptly. gree of cleanliness St 3. lipa Silikonentferner.			
	Zinced substrates: - Clean the surface with the ammonia solu - Sweep blast.	ution Mipa Zinkreiniger.			
	nd thoroughly with sandpaper P 360/400 nentferner.				

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Proposed coating structure:	 2-coat system Zinced substrates, aluminium: Priming coat: EP 500-20 with 60 - 80 μm dry film thickness. Finishing coat: ***PU 500-20 with 50 - 60 μm dry film thickness. 3-coat system Steel: Priming coat: *** EP 100-20 or in case of constant water exposure 2K zinc dust paint with 60 - 80 μm dry film thickness. Intermediate coat: EP 500-20 (60 - 80 μm), for maximum corrosion protection (140 - 160 μm). Finishing coat: ***PU 500-20 with 50 - 60 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 values: - Applied by spraying wih 2K-EP-Härter EP 950-25: < 500 g/l of VOC.
	***Further Mipa primers/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 DB 701. For other colour shades, these may deviate.
	In case of application by means of an Airmix/Airless device, it is recommended testing beforehand the equipment for its suitability.
	Check colour prior to application.
	In order to achieve optimum iron mica effects and to avoid strips, it is advisable to spray the finishing coat or to roll or paint in only one direction.
	When used as an intermediate layer in anti-corrosion coating, the addition of PMI colour concentrate can be dispensed with.
	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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