## EP 109-20 2K-EP-Haftgrundmittel

Technical data sheet



Version: en 6/0124

## Intended use

Mipa EP 109-20 2K-EP-Haftgrundmittel (BAN80-1024) is a multi-purpose adhesion promoter that provides active corrosion protection and excellent adhesion on steel, zinced substrates, aluminium (also anodised), stainless steel, non-ferrous metals, chromed substrates, GRP, powder coatings and cathodic e-coatings. Mipa EP 109-20 offers large time savings thanks to the fast drying and overcoatability and because of its good flow, Mipa EP 109-20 can also be used as a primer in a two-coat system, if required.

Colour: Approx. RAL 1024 ochre yellow. Further colour shades on request.

## Processing instructions .

Mixing ratio



hardener by weight (lacquer : hardener) by volume (lacquer : hardener) EP 969-25 4:15:1 Hardener Mipa EP 969-25 2K-EP-Härter (BAN93-0018) Pot life with Härter -25 max. 12 h at 20 °C Thinner Mipa Verdünnung 321 (BHN97-0002) Mipa EP-Verdünnung, Mipa EP-Verdünnung lang\* Processing viscosity The processing viscosity is adjusted with the specified thinner according to the conditions of the device/ line. gravity spray gun **Airmix/Airless** Application mode application mode pressure dilution hardener nozzle (mm) spray (bar) passes 2,0 - 2,5 1,4 - 1,6 25 - 30 % gravity spray gun / 1 HVLP 1,3 - 1,5 25 - 30 % 2,0 - 2,5 paint pressure tank 1 0,5 - 0,8 compound pressure 1,0 - 2,0 0,28 - 0,33 10 - 20 % Airmix / Airless 1 70 - 100 compound pressure Drying time hardener object ready for dust dry set to sandable recoatable temperature touch assembly 20 °C 10 - 15 min 3-4h 16 h 20 min

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.

70 °C

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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 ~ 64 ~ 44 45 - 55 ~ 1,4 < 20 mat
Properties:	active corrosion protection (zinc phosphate) electrostatic application possible excellent resistance to chemical and mechanical stresses heat resistance: - short-term heat exposure: 180 °C - permanent heat exposure: 150 °C adhesion to steel, zinced substrates, aluminium (also anodised), stainless steel, non-ferrous metals, chromed substrates, GRP, powder coatings and cathodic e- coatings.	
Theoretical spreading rate:	$\sim$ 32,0 m²/kg, 5:1 by weight with EP 969-25, for 10 $\mu m$ dry film thickness $\sim$ 39,3 m²/l, 5:1 by weight with EP 969-25, for 10 $\mu m$ 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:	< 525 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 o metals, alloys, metallic coatings, conversion coatings, powder coatings, cathodic e-coatings and so on. The adhesion must therefore be tested on the original substrate.	
	steel: - de-rust with hand and power tools to de - degrease with Mipa WBS Reiniger or M	
	zinced substrates: - clean the surface with the ammonia solu - sweep blast	ution Mipa Zinkreiniger
	aluminium (also anodised), non-ferrous m - degrease with Mipa 2K-Verdünnung, sar P 360/400 and clean subsequently with	nd thoroughly with sandpaper
	stainless steel, chromed substrates: - degrease with Mipa 2K-Verdünnung, sand thoroughly with sandpaper P 240/360 and clean subsequently with Mipa Silikonentferner	
	GRP, powder coatings and cathodic e-coa - clean (remove completely any mould rel sand slightly and degrease with Mipa Sil	ease agents), if necessary,

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Proposed coating structure:	2-coat system*** steel, zinced substrates, aluminium (also anodised), stainless steel, non-ferrous metals, chromed substrates, GRP, powder coatings and cathodic e-coatings: priming coat: EP 109-20 with 10 - 20 μm dry film thickness finishing coat: ****PU 246-XX / PU 249-XX with 40 - 60 μm dry film thickness 3-coat system steel, zinced substrates, aluminium (also anodised), stainless steel, non-ferrous metals, chromed substrates, GRP, powder coatings and cathodic e-coatings: priming coat: EP 109-20 with 10 - 20 μm dry film thickness intermediate coat: ****EP 175-20 / EA 184-20 with 40 - 60 μm dry film thickness finishing coat: ****PU 246-XX / PU 249-XX with 40 - 60 μm dry film thickness	
re	*To extend the flash-off times, the use of Mipa EP-Verdünnung lang as thinner is recommended. The use of the Mipa EP-Verdünnung lang also leads to a delay in drying times.	
	**This product has the following maximum VOC values: - Undiluted with 2K-EP-Härter EP 969-25: < 540 g/l of VOC.	
	*** Due to the low dry film thickness, the use as primer in a 2-layer coating system is only recommended for corrosion-insensitive substrates or for use in ambient conditions with moderate exposure to corrosion.	
	**** Further Mipa intermediate/ finishing coats are available. Please contact your technical adviser or our application technicians.	
	For professional use only.	
	Flash-off: 10 - 15 min. prior to oven drying.	
	Recoatable at the earliest after 20 min & at the latest after 14 days. If drying for > 14 d, intermediate sanding required.	
	Can be overcoated with putty after 30 minutes at 60 °C or after 12 hours drying at room temperature.	
	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 Verdünnung 321.	

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