EP 175-20 2K EP Primer

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Intended use

Mipa EP 175-20 2K EP Primer is a 2K epoxy resin primer containing zinc phosphate for coating steel, zinced substrates, aluminium and GRP. Suitable as an intermediate coat for a zinc dust and EP based priming coat.

Colours: Various colour shades.

Processing instructions



Mixing ratio hardener EP 940-25

by weight (lacquer: hardener) by volume (lacquer: hardener)

4:1 3:1



Hardener

Mipa EP 940-25 2K EP Hardener



Pot life

with hardener -25 max. 24 h at 20 °C



Thinner

Mipa EP-Verdünnung 971



Processing viscosity

After adding the hardener, allow approx. 15 min. pre-reaction time, then adjust viscosity.

The processing viscosity is adjusted with the specified thinner according to the conditions of the device/ line.

gravity spray gun

20 - 30 s 4 mm DIN

Airmix/Airless

30 - 40 s 4 mm DIN



Application mode

application mode	hardener	pressure (bar)	nozzle (mm)	spray passes	dilution
gravity spray gun / HVLP	-	2,0 - 2,5	1,4 - 1,6	2 - 3	15 - 20 %
paint pressure tank compound pressure	-	2,0 - 2,5 0,5 - 0,8	1,3 - 1,5	2 - 3	< 15 %
Airmix / Airless compound pressure	-	1,0 - 2,0 70 - 100	0,33 - 0,38	1 - 2	0 - 5 %
brush, roller					0 - 10 %



Drving time

hardener	object temperature	dust dry	set to touch	ready for assembly	sandable	recoatable
	20 °C	10 - 15 min	3 - 4 h	2 days		4 h
_	60 °C	_		45 min		45 min

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Note _

Characteristics: binder base: epoxy resin

solids content (% by weight): ~ 73
solids content (% by volume): ~ 52
delivery viscosity DIN 53211 4 mm (in s): thixotropic density DIN EN ISO 2811 (kg/l): ~ 1,5
gloss level ISO 2813 at 60° (GU): < 20 matt

Properties: Active corrosion protection (zinc phosphate)

Electrostatic application possible

Excellent resistance to chemical and mechanical stresses Can be used to insulate thermoplastic substrates

Heat resistance:

Short-term heat exposure: 180 °C
 Permanent heat exposure: 150 °C

Adhesion on steel, zinced substrates, aluminium and GRP

Theoretical spreading rate: ~ 37,6 m²/kg, 4:1 by weight with EP 940-25, for 10 μm dry film thickness.

 \sim 48,6 m²/l, 4:1 by weight with EP 940-25, for 10 μ 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: < 450 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 21/2, remove blast residues and overcoat promptly.
- De-rust with hand and power tools to degree of cleanliness St 3.
- Degrease with Mipa WBS Reiniger or Mipa Silikonent ferner.

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: Steel, zinced substrates, aluminium, GRP:

Priming coat: EP 175-20 with 40 - 60 µm dry film thickness.

Finishing coat: **PU 246-XX / PU 249-XX with 40 - 60 µm dry film thickness.

or

Steel, zinced substrates, aluminium, GRP:

Priming coat: EP 175-20 with 2 \times 40 - 60 μ m dry film thickness.

Finishing coat: **PU 246-XX / PU 249-XX with 40 - 60 µm dry film thickness.

Special notes: *This product has the following maximum VOC values:

- applied by spraying with 2K-EP-Härter EP 940-25: < 540 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.

Flash-off time: 10 - 15 Min. prior to oven drying.

Recoatable at the earliest after 45 min at 60 °C or 4 h at 20 °C and at the lastest after 14 days. After drying for more than 14 days, intermediate sanding is required.

Can be overcoated with putty after 60 minutes at 60 °C.

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.

Clean Tools Clean Tools immediately after use with Mipa EP Verdünnung 971.