EP 100-20

2K-EP-Grund

Product Information

Product description

Operational Sector :

Chromate free groundcoat based on 2K zinc phosphate epoxy resin, suitable for steel, zinc plated steel, aluminium, glas fibre reinforced materials and mineral substrates. Recommended as groundcoat for use underwater and as protection coat against chemical agents. Also suitable as intermediate coat by the application of EP-Zinkstaubgrundierung.

Specification :

Binder base:	epoxy resin
Solid content:	68 - 72 by weight -%
Delivery viscosity (DIN 53 211):	thixotropic
Spec. weight (DIN 51 757):	1.45 - 1.55 kg / l
Gloss (DIN 67 530):	10 - 20% / 60° (dull)

Features :

- excellent protection against corrosion
- electrostatically applicable
- outstanding chemical and mechanical resistance
- usable as insulation on thermoplastic substrate
- heat stability:
  permanent exposure: 150 °C; short term exposure: 1 80 °C
- adhesion test (DIN 53 151):
  steel: Gt 0 (very good); zinc: Gt 0 (very good);
  aluminium. Gt 0 (very good)

Storage :

In tightly closed original containers at least 3 years shelf life

VOC content :

EU limiting value for the product (cat. B/c): 540 g/l
This product contains max. 540 g/l VOC. [4.51 lbs/gal]

Application

Processing Conditions:

From + 10 °C and up to 80 % relative air humidity.

Substrate Preparation :

Ferrous metal, steel: clean, eventually sand (remove rust, cinder, oxides) and degrease with Mipa Silikonentferner.

Zinc: clean with ammonia alkaline wetting agent (Mipa Zinkreiniger)

Aluminium: clean, sand and degrease with Mipa Silikon-entferner (anti-silicone).

Application Process :

	Pressure [bar]	Nozzle [mm]	Spraying Operations	Dilution
Brushing, rolling	-	-	-	5 - 10 %
Air / Flow jar	4	1.5 - 1.8	2 - 3	20 - 25 %
HVLP	2,5 - 3	1.5 - 1.8	2 - 4	20 - 25 %
Airless	120 - 150	0.28 - 0.33 (65 - 95 °)	1 - 2	10 - 15 %

EP 100-20

2K-EP-Grund

Product Information

Dilution : Mipa EP-Verdünnung

Hardener : Mipa EP 950-25, EP 950-15, EP 950-10

Mixing Ratio : By weight: 5 : 1 (EP 100-20 : Hardener)
By volume: 3 : 1 (EP 100-20 : Hardener)

Dry	**dust dry**	**set to touch**	**handle**	**recoatable**
Object temp. 20 °C	45 - 55 min.	4 - 5 h	10 - 12 h	1 h
Object temp. 60 °C			45 min.	-

Re-coatable earliest after 1 hour and latest after 24 hours.
By drying times longer than 24 hours, an intermediate sanding is required.

Pot Life : 7 - 9 hours

Application Proposal :

Ferrous metal, steel:
Base coat: EP 100-20 (coat thickness: 50 - 70 µm)
Top coat: PU 200-90 (coat thickness: 50 - 60 µm)
Zinc:
Base coat: EP 100-20 (coat thickness: 50 - 70 µm)
Top coat: PU 200-90 (coat thickness: 50 - 60 µm)
Aluminium:
Base coat: EP 100-20 (coat thickness: 50 - 70 µm)
Top coat: PU 200-90 (coat thickness: 50 - 60 µm)

Theoret. Consumption : 3.8 - 4.2 m^2 / kg (by 50 µm dry coat thickness)

Special Recommendations

To be used only by professionals. Some colours may contain lead therefore do not use for children's toys or for objects which may be chewed or sucked.

Cleaning of Tools

Tools should be cleaned immediately after use with Nitroverdünnung.