CHING-EP-ATEX-MIOX-Intermediate coating
EMD 30 ATEX L

Intended use

Thick-layer, electrically conductive epoxy resin-based 2C-intermediate coating for heavy-duty corrosion protection on steel structures. Complies with the requirements of ATEX Directive 94/9/EC (ATEX 95).

Application

Industrial goods, machine and plant construction, warehouses, chemical plants, industrial- and hall construction, tank facilities, power plant sector, etc.

General information

	Color shades	Grey			
	Gloss	mat			
	Mixing ratio	**Hardener**	**per weigth** [Paint : Hardener]	**per volume** [Paint : Hardener]	
		Hardener M 028	100 : 11	100 : 16	
	Pot life	approx. 4 - 5 h	NC 23°C/50% | Can be re-diluted within this period if necessary.		
	Stirring / Dilution	Stir the product mechanically before each use. Ready to use after adding hardener. Dilute with CHING-EP-Thinner EM 01 if necessary.			
	Spraying	**Viscosity** [DIN 4]	**Thinner** [%]	**Nozzle** [mm]	**Pressure** [bar]
	Cup gun	30 - 40 s	10 - 15	1,5 - 2,5	3 - 5
	Airless (Airmix)	Delivery form	≤ 3	0,31 - 0,38	120 - 200
	Brush application	Delivery form			
	Roller application	Delivery form (multiple application is recommended due to structure formation and minimum layer thicknesses)			
	Flow application	n.a.			
	Substrate preparation	according to DIN EN ISO 12944-4; qualified primer. Surface clean, dry and free of dust, salt, oil and grease			

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Viscosity delivery form	40 - 60 DIN-6-seconds

Drying time[1]	**Temperature**	**Dust-dry**	**Grip resistant**	**Mech. resilient**	**Recoatable**[2]
at 80 µm	NC 23/50	1 h	4 h	10 h	4 h 8 - 10 h[3]

1 Based on delivery viscosity! Humidity has a decisive influence on drying!
2 with itself (not normally required for top and final coats, except possibly for minimum coat thicknesses)
3 with suitable subsequent coating e.g. CHING-PUR-EL-top coating ADD 47 H L

Other values

Density [g/cm³]	**Solids** [Weight. %]	**Solid volume** [%]	[cm³/kg]	**Effiency**[1] [m²/kg]
1,4 ± 0,1	66 ± 3	47 ± 3	335 ± 20	4,2

WFF	**DFT**[2] [µm]	**Consume** [g/m²]	**VOC-content** [g/l] (± 20)	**Temperature resistance**[3]
2,1	80	240 ± 20	470	120°C

These values are imputed values that may vary depending on the color shade and application.
Drying times are correspondingly longer for thicker layers.
The drying times are shortened by forced drying.

1 ± 0,5 for 80 µm dry layer thickness (depending on shade)
2 With layer thicknesses > µm bubbles may form!
3 Dry heat

Notes

- **Storage**
  24 months (in unopened original container. Store cool but frost protected!)
- **Processing conditions**
  - The air and object temperature should be at +10°C to +40°C (optimally at 15-35 °C) and the relative humidity at max. 80 %. The surface temperature of the parts to be coated must be at least 3 °C above the dew point of the surrounding air during application.
  - Sufficient supply and exhaust air must be provided.
  - Electrical characteristics:
  - Breakdown voltage: ≤ 4 kV/DC
  - Surface resistance: ≤ 1 GΩ
  - Caution: When subsequently used as an electrically conductive coating, care must be taken to ensure that the specified layer thickness is adhered to as closely as possible. Overcoat thicknesses must not exceed twice the target layer thickness, as otherwise compliance with the requirements of ATEX Directive 94/9/EC (ATEX 95) cannot be guaranteed.

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