CHING-EP-High-Solid-Primer
ESD 182 K

Intended use

Low-solvent, fast-drying two-component epoxy high-solid primer with active corrosion protection for steel, galvanized steel, aluminum, and core plates in heavy-duty corrosion protection applications; can be applied and dries well even at low temperatures down to +3°C.

Application

Dry-type transformers, transformer stations, industrial goods, mechanical and plant engineering, bridge construction, airport buildings, warehouses, parking garages, chemical plants, billboard structures, civil engineering structures, industrial and warehouse construction, tank farms, waste-to-energy plants, power plant facilities, etc.

General information

	Color shades	RAL 7016, and other colors on request			
	Gloss	mat			
	Mixing ratio	**Hardener**	**per weigth** [Paint : Hardener]	**per volume** [Paint : Hardener]	
		Hardener M 050	100 : 12	100 : 22 4,5 : 1	
	Pot life	approx. 1 - 2 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	40 - 70 s	5 - 10	1,5 - 2,5	4 - 6
	Airless (Airmix)	Delivery form	≤ 3	0,28 - 0,51	140 - 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.			

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Substrate preparation	according to DIN EN ISO 12944-4; Steel, blasted: Sa 2½, the surface roughness should be „medium (G)“ according to ISO 8503-1. Galvanized steel Aluminium and stainless steel: Sweep blasting according to DIN EN ISO 12944-4. Core sheet free of oil, grease, dust, salt and other adhesion-reducing substances (e.g. corrosion products)
Viscosity delivery form	30 - 60 DIN-6-seconds

Drying time[1]	**Temperature**	**Dust-dry**	**Grip resistant**	**Mech. resilient**	**Recoatable**[2]
at 160 µm	NC 23/50	1 h	3 h	4 h	3 - 4 h[3] 4 - 5 h[4]

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. CHNG-2C-EP-primer or Intermediate coatings e.g. ESD 30
4 with suitable subsequent coating, e.g. CHING-2C-PUR-top coat ASD 43/47

Other values

Density [g/cm³]	**Solids** [Weight. %]	**Solid volume** [%]	[cm³/kg]	**Effiency**[1] [m²/kg]
1,6 ± 0,1	84 ± 3	74 ± 3	455 ± 20	2,8
WFF	**DFT**[2] [µm]	**Consume** [g/m²]	**VOC-content** [g/l] (± 20)	**Temperature resistance**[3]
1,4	120 - 160	350 ± 20	250	180°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 160 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 +3°C bis +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.

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