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

Intended use

Thick-layer, low-solvent, fast-curing, 2-component EP high-solids primer for indoor and outdoor use on transformer tanks, and for use in systems with a suitable intermediate and/or topcoat for heavy-duty corrosion protection outdoors. Resistant to all commercially available mineral, silicone, and natural and synthetic ester oils (insulating fluids).
Also suitable for use in low-temperature ranges down to +3°C.

Application

Industrial goods, mechanical and plant engineering, bridge construction, airport buildings, warehouses, multi-storey car parks, chemical plants, sign gantries, engineering buildings, industrial and hall construction, tank farms, waste incineration plants, power stations, etc.

General information

	Color shades	white			
	Gloss	mat			
	Mixing ratio	**Hardener**	**per weigth** [Paint : Hardener]	**per volume** [Paint : Hardener]	
		Hardener M 050	100 : 12	100 : 20 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 - 5
	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. Zinc, aluminium and stainless steel: sweep-blasting according to DIN EN ISO 12944-4
Viscosity delivery form	30 - 60 DIN-6-seconds

Drying time[1]	**Temperature**	**Dust-dry**	**Grip resistant**	**Mech. resilient**	**Recoatable**[2]
at 80 µm	NC 23/50	30 min	1,5 h	2,5 h	2 h[3] 3 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. 2C-EP-intermediate coating ESD 30
4 with suitable subsequent coating e.g. 2C-PUR-top coat ASD 43/47

Other values

Density [g/cm³]	**Solids** [Weight. %]	**Solid volume** [%]	[cm³/kg]	**Effiency**[1] [m²/kg]
1,5 ± 0,1	83 ± 3	73 ± 3	470 ± 20	5,9
WFF	**DFT**[2] [µm]	**Consume** [g/m²]	**VOC-content** [g/l] (± 20)	**Temperature resistance**[3]
1,4	80 - 120	170 ± 20	250	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 +3°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.
  - Experience has shown that the coating system is suitable for vapur phase drying and for operating temperatures of transformers, whereby the specified layer thickness must not exceed by more than double!
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