CHING-EP-Primer
EMC 182 K-DB

Intended use

Thick-layer, fast-drying 2C-EP-primer for transformer tank interiors and system construction 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) approved by SIEMENS, SGB-Smit Group, ABB, ALSTOM, CG Global, etc.

Application

Transformers and attachments

General information

	**Color shades**	White, red brown, other colors on request			
	**Gloss**	mat			
	**Mixing ratio**	**Hardener**	**per weigth** [Paint : Hardener]	**per volume** [Paint : Hardener]	
		Hardener M 038	100 : 15	100 : 30	
	**Pot life**	approx. 6 - 8 h	NC 23°C/50%		
	**Stirring / Dilution**	Stir the product mechanically before each use. Ready to use after adding hardener. Dilute with CHING-Thinner EM 01 if necessary.			
	**Spraying**	**Viscosity** [DIN 4]	**Thinner** [%]	**Nozzle** [mm]	**Pressure** [bar]
	Cup gun	30 - 50 s	10 - 15	1,5 - 2,0	4 - 5
	Airless (Airmix)	Delivery form	≤ 3	0,28 - 0,38	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; tank exterior: steel: blasted Sa 2½, surface roughness should be „medium (G)“ acc. to ISO 8503-1. Zinc, stainless steel: sweep-blasting acc. to DIN EN ISO 12944-4. Tank interior: steel, degreased or blasted Sa 2½, surface roughness should be „medium (G)“ according to ISO 8503-1.
Viscosity delivery form	30 - 40 DIN-6-seconds

Drying time[1]	**Temperature**	**Dust-dry**	**Grip resistant**	**Mech. resilient**	**Recoatable**[2]
at 80 µm	NC 23/50	1 h	7 h	10 h	6 - 8 h[3] 8 - 10 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
[4] with suitable subsequent coating e.g. CHING-PUR-top coat

Other values

Density [g/cm³]	**Solids** [Weight. %]	**Solid volume** [%]	[cm³/kg]	**Effiency**[1] [m²/kg]
1,6 ± 0,1	78 ± 3	61 ± 3	375 ± 20	4,7
WFF	**DFT**[2] [µm]	**Consume**[1] [g/m²]	**VOC-content** [g/l] (± 20)	**Temperature resistance**[3]
1,6	80	210 ± 20	360	130°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.
  - 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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