

CHING-EP-Primer EMC 182 white 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, other colors on request			
	Gloss	mat			
	Mixing ratio	Hardener	per weight [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.			



	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 time¹	Temperature	Dust-dry	Grip resistant	Mech. resilient	Recoatable²
	at 80 µm	NC 23/50	1 h	7 h	10 h	6 - 8 h ³ 8 - 10 h ⁴
<p>¹ Based on delivery viscosity! Humidity has a decisive influence on drying!</p> <p>² with itself (not normally required for top and final coats, except possibly for minimum coat thicknesses)</p> <p>³ with suitable subsequent coating e.g. 2C-EP-intermediate coating</p> <p>⁴ with suitable subsequent coating e.g. CHING-PUR-top coat</p>						
	Other values	Density [g/cm ³]	Solids [Weight. %]	Solid volume [%] [cm ³ /kg]		Efficiency¹ [m ² /kg]
		1,63 ± 0,1	78 ± 3	61 ± 3	375 ± 20	4,7
		WFF	DFT² [µm]	Consume [g/m ²]	VOC-content [g/l] (± 20)	Temperature resistance³
		1,6	80	213 ± 20	360	130°C
<p>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.</p> <p>¹ ± 0,5 for 80 µm dry layer thickness (depending on shade)</p> <p>² With layer thicknesses > - µm bubbles may form!</p> <p>³ Dry heat</p>						
	Notes	<ul style="list-style-type: none"> • Storage 24 months (in unopened original container. Store cool but frost protected!) • Processing conditions <ul style="list-style-type: none"> ❖ 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 vapour phase drying and for operating temperatures of transformers, whereby the specified layer thickness must not exceed by more than double! ❖ 				