

CHING-EP-Primer EMC 182-HS










Intended use

Fast-drying 2C-EP-primer for steel, galvanized steel, stainless steel, aluminium as well as special core sheets in heavy corrosion protection.

Application

GEAFOL transformers, industrial halls, airport buildings, warehouses, multi-storey car parks, chemical plants, pipe bridges, off-shore areas, tank farms, power stations, bridge structures, etc.

General information

	Color shades	RAL 5009, RAL 5013, RAL 7016, RAL 7045, approx. DB 704 K, white, grey, blue, black, red brown, other colors on request			
	Gloss	mat			
	Mixing ratio	Hardener	per weight [Paint : Hardener]	per volume [Paint : Hardener]	
		Hardener M 024W	100 : 17	100 : 30	
	Pot life	approx. 3 - 4 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	40 - 70 s	10 - 15	1,5 - 2,5	4 - 6
	Airless (Airmix)	Delivery form	≤ 3	0,28 - 0,48	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; cleaned zinc, steel, aluminium and core sheet surface, free of oil, grease, dust, salt and other adhesion-reducing substances (e.g. corrosion products). Sweep-blasting: In case of a requirement of corrosion protection class C4 or higher, sweep-blasting is recommended for thick-walled, galvanized components and roughening using e.g. abrasive fleece as surface preparation for thin-walled, strip-galvanized components. Stainless steel should always be sweep-blasted.				
	Viscosity delivery form	30 - 60 DIN-6-seconds				
	Drying time¹	Temperature	Dust-dry	Grip resistant	Mech. resilient	Recoatable²
	at 80 µm	NC 23/50	30 min	2 h	3 h	2 - 3 h ³ 4 - 6 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 2C-EP-coating materials e.g. CHING-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]
		1,5 ± 0,1	75 ± 3	51 ± 3	330 ± 20	4,1
		WFF	DFT² [µm]	Consume [g/m ²]	VOC-content [g/l] (± 20)	Temperature resistance³
		1,8	80 - 100	240 ± 20	410	180°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. 				