

## 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

	<b>Color shades</b>	RAL 5009, RAL 5013, RAL 7045, approx. DB 704 K, white, grey, blue, black, red brown, other colors on request			
	<b>Gloss</b>	mat			
	<b>Mixing ratio</b>	<b>Hardener</b>	<b>per weight</b> [Paint : Hardener]	<b>per volume</b> [Paint : Hardener]	
		Hardener M 024W	100 : 17	100 : 30	
	<b>Pot life</b>	approx. 3 - 4 h	NC 23°C/50%		
	<b>Stirring / Dilution</b>	Stir the product mechanically before each use. Ready to use after adding hardener. Dilute with CHING-Thinner EM 01 if necessary.			
	<b>Spraying</b>	<b>Viscosity</b> [DIN 4]	<b>Thinner</b> [%]	<b>Nozzle</b> [mm]	<b>Pressure</b> [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
	<b>Brush application</b>	Delivery form			
	<b>Roller application</b>	Delivery form (multiple application is recommended due to structure formation and minimum layer thicknesses)			
	<b>Flow application</b>	n.a.			



	<b>Substrate preparation</b>	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.				
	<b>Viscosity delivery form</b>	30 - 60 DIN-6-seconds				
	<b>Drying time<sup>1</sup></b>	<b>Temperature</b>	<b>Dust-dry</b>	<b>Grip resistant</b>	<b>Mech. resilient</b>	<b>Recoatable<sup>2</sup></b>
	at 80 µm	NC 23/50	30 min	2 h	3 h	2 - 3 h <sup>3</sup> 4 - 6 h <sup>4</sup>
<p><sup>1</sup> Based on delivery viscosity! Humidity has a decisive influence on drying!</p> <p><sup>2</sup> with itself (not normally required for top and final coats, except possibly for minimum coat thicknesses)</p> <p><sup>3</sup> with suitable 2C-EP-coating materials e.g. CHING-EP-intermediate coating</p> <p><sup>4</sup> with suitable subsequent coating e.g. CHING-PUR-top coat</p>						
	<b>Other values</b>	<b>Density</b> [g/cm <sup>3</sup> ]	<b>Solids</b> [Weight. %]	<b>Solid volume</b> [%] [cm <sup>3</sup> /kg]		<b>Efficiency<sup>1</sup></b> [m <sup>2</sup> /kg]
		1,5 ± 0,1	75 ± 3	51 ± 3	330 ± 20	4,1
		<b>WFF</b>	<b>DFT<sup>2</sup></b> [µm]	<b>Consume</b> [g/m <sup>2</sup> ]	<b>VOC-content</b> [g/l] (± 20)	<b>Temperature resistance<sup>3</sup></b>
		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><sup>1</sup> ± 0,5 for 80 µm dry layer thickness (depending on shade)</p> <p><sup>2</sup> With layer thicknesses &gt; - µm bubbles may form!</p> <p><sup>3</sup> Dry heat</p>						
	<b>Notes</b>	<ul style="list-style-type: none"> <li>• <b>Storage</b> 24 months (in unopened original container. Store cool but frost protected!)</li> <li>• <b>Processing conditions</b> <ul style="list-style-type: none"> <li>❖ 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.</li> <li>❖ Sufficient supply and exhaust air must be provided.</li> </ul> </li> </ul>				