

## CHING-EP-ATEX-Primer EMD 186 ATEX L










### Intended use

Thick-layer, electrically conductive epoxy resin-based 2C-primer for heavy-duty corrosion protection on steel structures and aluminum. Complies with the requirements of ATEX Directive 94/9/EC (ATEX 95).

### Application

Electrolysis plants, machine and plant construction, warehouses, chemical plants, industrial- and hall construction, tank facilities, power plant sector, etc.

### General information

	<b>Color shades</b>	Anthracite and black			
	<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 028	100 : 11 9 : 1	100 : 16 6 : 1	
	<b>Pot life</b>	approx. 4 - 5 h	NC 23°C/50%   Can be re-diluted within this period if necessary.		
	<b>Stirring / Dilution</b>	Stir the product mechanically before each use. Ready to use after adding hardener. Dilute with CHING-EP-Thinner EM 01 if necessary.			
	<b>Spraying</b>	<b>Viscosity [DIN 4]</b>	<b>Thinner [%]</b>	<b>Nozzle [mm]</b>	<b>Pressure [bar]</b>
		Cup gun	30 - 40 s	5 - 10	1,5 - 2,5
	Airless (Airmix)	Delivery form	≤ 3	0,31 - 0,38	120 - 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; Steel and aluminium clean, dry, free of dust, rust oil and grease as well as free of adhesion-reducing substances (e.g. corrosion products). For requirements from corrosivity category C4H, blasting of steel Sa 2½ according to ISO 8501- with roughness degree according to ISO 8503-1 medium (G) is recommended.				
	<b>Viscosity delivery form</b>	40 - 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	1 h	4 h	10 h	4 h <sup>3</sup> 8 - 10 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 itself or CHING-EP-E`GL-EL-intermediate coating EMD 30 L</p> <p><sup>4</sup> with CHING-PUR-EL-top coatings ADD 47 H L</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	69 ± 3	48 ± 3	310 ± 20	3,9
		<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>
		2,1	80	255 ± 20	420	120°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> <li>❖ Electrical characteristics according to DIN EN ISO 60079:</li> <li>❖ Breakdown voltage: ≤ 4 kV/DC - Electrode according to DIN 60079-32-2 (sections 4.13.3 and 4.13.4)</li> <li>❖ Surface resistance: ≤ 1 GΩ at 500 V - Electrode according to DIN EN 61340-2-3</li> <li>❖ Leakage resistance: ≤ 1 GΩ at 500 V - Electrode according to DIN EN 61340-2-3</li> <li>❖ Caution: When using the product as an electrically conductive coating, care must be taken to ensure that the specified layer thickness is adhered to as closely as possible. Overcoat thicknesses must not exceed twice the specified layer thickness, as otherwise compliance with the requirements of ATEX Directive 94/9/EC (ATEX 95) cannot be guaranteed.</li> </ul> </li> </ul>				