

## CHING-EP-Primer 603.01

### Intended use

2C-EP corrosion protection primer (2C-EP metal primer) for rail vehicles according to DBS 918300, Appendix B - Sheet 3.

### Application

Industrial and hall construction, airport buildings, warehouses, parking garages, chemical plants, sign gantries, civil engineering structures, tank farms, waste incineration plants, locomotive boilers, etc.

### General information

	<b>Color shades</b>	RAL 3012			
	<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 033	100 : 20	100 : 40	
	<b>Pot life</b>	approx. 8 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	40 - 70 s	5 - 10	1,5 - 2,5	3 - 5
	Airless (Airmix)	Delivery form	≤ 5	0,31 - 0,51	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 the specifications of DBS 918300, Appendix B, Sheet 3; steel, blasted: surface preparation grade Sa 2½; surface roughness "fine (G)" according to DIN EN ISO 8501-1 and DIN EN ISO 8503-1. Aluminum: blasted with iron-free blasting media, roughness Ra ≈ 5 - 8 µm according to DIN EN ISO 4287.					
	<b>Viscosity delivery form</b>	30 - 45 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 60 µm	NC 23/50	≤ 2 h	≤ 16 h	-	≥ 8 h <sup>3</sup>	
<sup>1</sup> Based on delivery viscosity! Humidity has a decisive influence on drying! <sup>2</sup> with itself (not normally required for top and final coats, except possibly for minimum coat thicknesses) <sup>3</sup> with suitable subsequent coating, e.g. 2C-EP-Top coat according to sheet 40							
	<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	80 ± 3	66 ± 3	420 ± 20	7,0	
		<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>	
		1,5	60 - 80	140 ± 20	220	120°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. <sup>1</sup> ± 0,5 for 60 µm dry layer thickness (depending on shade) <sup>2</sup> With layer thicknesses > µm bubbles may form! <sup>3</sup> Dry heat							
	<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 +7°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>					