

## CHING-HYDROVERSAL-Primer HV 186

### Intended use

Water-based, fast-drying 1C-acrylic primer with active corrosion protection for steel, galvanized steel, stainless steel, aluminium and other non-ferrous metals.

### Application

Transformers, transformer stations, mechanical engineering (e.g. motors, generators, aggregates), chemical, industrial and waste incineration plants as well as steel construction (e.g. multi-storey car parks, crane systems, tank systems, pipe bridges, bridge structures)

### General information

	<b>Color shades</b>	Grey, red brown as well as other colors on request			
	<b>Gloss</b>	mat			
	<b>Stirring / Dilution</b>	Stir the product mechanically before each use. Ready to use after adding hardener. Dilute with deion. water if necessary.			
	<b>Spraying</b>	<b>Viscosity [DIN 4]</b>	<b>Thinner [%]</b>	<b>Nozzle [mm]</b>	<b>Pressure [bar]</b>
	Cup gun	30-50 s	5 - 10	1,5 - 2,0	3 - 5
	Airless (Airmix)	Delivery form	≤ 3	0,28 - 0,45	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 12944-4; Steel: blasted Sa 2½, surface roughness should be "medium (G)" according to ISO 8503-1. Galvanized steel, stainless and aluminium: surface clean, dry, free of salt, dust, rust, oil and grease as well as free of adhesion-reducing substances (e.g. corrosion products). For a requirement profile of corrosivity category C4-H and higher, sweep blasting according to DIN EN ISO 12944-4 on galvanized surfaces is recommended.			



	<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	45 min.	2 h	6 h	3 h <sup>3</sup>
<p><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. CHING-HYDROVERSAL-intermediate or top coat with sufficient drying and ventilation</p>						
	<b>Viscosity delivery form</b>	95-100 KU				
	<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]
		1,3 ± 0,1	63 ± 3	44 ± 3	350 ± 20	4,3
		<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>
		1,9	80-100	230 ± 20	130	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)  <sup>2</sup> With layer thicknesses &gt; - µm bubbles may form!  <sup>3</sup> Dry heat</p>						
	<b>Notes</b>	<ul style="list-style-type: none"> <li>• <b>Storage</b> 18 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>❖ The equipment (e.g. spray gun, stirring unit etc.) should be cleaned directly after the use with water (tap water). The sooner the cleaning work is carried out, the better the cleaning effect. Dired-on material can be cleaned with CHING-Thinner VH 01.</li> </ul> </li> </ul>				