CHING-EP-Primer, fast-curing
697.02/06

Intended use

Fast-curing, high-resistance, 2C-EP-primer for steel structures requiring heavy-duty corrosion protection according to TL/TP-KOR-Stahlbauten (steel structures), Appendix E - Sheet 97;
Also suitable for use in low-temperature ranges down to +3°C

Application

Bridge construction, roadway transition structures, airport buildings, warehouses, parking garages, chemical plants, sign gantries, civil engineering structures, industrial and hall construction, tank facilities, waste incineration plants, power plants, etc.

General information

	Color shades	RAL 1002, RAL 8012			
	Gloss	mat			
	Mixing ratio	**Hardener**	**per weigth** [Paint : Hardener]	**per volume** [Paint : Hardener]	
		Hardener M 050	100 : 6	100 : 11	
	Pot life	approx. ≥ 2 h	NC 23°C/50% | Can be re-diluted within this period if necessary.		
	Stirring / Dilution	Stir the product mechanically before each use. Ready to use after adding hardener. Dilute with Thinner 697.150 if necessary.			
	Spraying	**Viscosity** [DIN 4]	**Thinner** [%]	**Nozzle** [mm]	**Pressure** [bar]
	Cup gun	40 - 70 s	5 - 10	1,5 - 2,5	3 - 5
	Airless (Airmix)	Delivery form	≤ 3	0,31 - 0,51	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.			

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TECHNICAL DATASHEET

Substrate preparation	according to DIN EN ISO 12944-4; Steel, blasted: Surface preparation Sa 2½ to Sa 3, the surface roughness should be „medium (G)“ according to ISO 8503-1 and -2
Viscosity delivery form	400 - 1200 mPas

Drying time[1]	**Temperature**	**Dust-dry**	**Grip resistant**	**Mech. resilient**	**Recoatable**[2]
at 80 µm	NC 23/50	≤ 1 h	≤ 4 h	-	≥ 3 h[3]

1 Based on delivery viscosity! Humidity has a decisive influence on drying!
2 with itself (not normally required for top and final coats, except possibly for minimum coat thicknesses)
3 with suitable subsequent coating, e.g. 2C-EP-Intermediate and 2C-PUR-Top coat according to sheet 87 or sheet 97

Other values

Density [g/cm³]	**Solids** [Weight. %]	**Solid volume** [%]	[cm³/kg]	**Effiency**[1] [m²/kg]
1,7 ± 0,1	80 ± 3	58 ± 3	330 ± 20	4,2

WFF	**DFT**[2] [µm]	**Consume** [g/m²]	**VOC-content** [g/l] (± 20)	**Temperature resistance**[3]
1,7	80	240 ± 20	380	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.

1 ± 0,5 for 80 µm dry layer thickness (depending on shade)
2 With layer thicknesses > µm bubbles may form!
3 Dry heat

Notes

- **Storage**
  24 months (in unopened original container. Store cool but frost protected!)
- **Processing conditions**
  - ❖ The air and object temperature should be at +3°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.

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