

CHING-EP-Primer 687.02/06

Intended use

2C-EP-primer with high resistance for steel structures in heavy-duty corrosion protection according to TL/TP-KOR-Stahlbauten, Annex E - Sheet 87.

Application

Bridge construction, airport buildings, warehouses, parking garages, chemical plants, sign gantries, 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 weight [Paint : Hardener]	per volume [Paint : Hardener]	
		Hardener M 031	100 : 22	100 : 42	
	Pot life	approx. ≥ 8 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 687.150 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	≤ 5	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.			
	Substrate preparation	according to DIN EN ISO 12944; surface preparation grade Sa 2½ bis Sa 3			



**Viscosity
delivery form**

400 - 1200 mPas



Drying time¹

at 80 µm

Temperature

NC 23/50

Dust-dry

≤ 2 h

**Grip
resistant**

≤ 16 h

**Mech.
resilient**

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Recoatable²

≥ 16 h³

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 oder sheet 97



**Other
values**

Density
[g/cm³]

1,5 ± 0,1

Solids
[Weight. %]

71 ± 3

Solid volume
[%]

49 ± 3

[cm³/kg]

325 ± 20

Efficiency¹
[m²/kg]

4,1

WFF

2,0

DFT²
[µm]

80

Consume
[g/m²]

245 ± 20

VOC-content
[g/l] (± 20)

250

**Temperature
resistance³**

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 +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.
 - ❖ Sufficient supply and exhaust air must be provided.