

CHING-EP-ATEX-Primer RWE-GB-29-D











Intended use

Thick-film, electrically conductive epoxy resin-based primer in a system structure for steel structures requiring heavy-duty corrosion protection. Complies with the provisions of ATEX Directive 94/9/EC (ATEX 95).

Application

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

General information

	Color shades	RAL-colors and other colors on request			
	Gloss	mat			
	Mixing ratio	Hardener	per weight [Paint : Hardener]	per volume [Paint : Hardener]	
		Hardener M 028R	100 : 11	100 : 17	
	Pot life	approx. 5 - 6 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 CHING-EP-Thinner EM 01 if necessary.			
	Spraying	Viscosity [DIN 4]	Thinner [%]	Nozzle [mm]	Pressure [bar]
	Cup gun	30 - 40 s	10 - 15	1,5 - 2,5	3 - 5
	Airless (Airmix)	Delivery form	≤ 3	0,28 - 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 12944-4; Steel, blasted Sa 2½ with angular blasting media, roughness according to EN ISO 8503-1 medium (G), roughness depth Rz 60-100µm according to RWE regulations.			



Viscosity delivery form

20 - 60 DIN-6-seconds



Drying time¹

Temperature

Dust-dry

Grip resistant

Mech. resilient

Recoatable²

at 120 µm

NC 23/50

2 h

6 h

10 h

6 h
10 - 12 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 CHING-PUR-ATEX-Top coat RWE-DB-30-D-xxxx



Other values

Density
[g/cm³]

Solids
[Weight. %]

Solid volume
[%]
[cm³/kg]

Efficiency¹
[m²/kg]

1,5 ± 0,1

70 ± 3

48 ± 3

320 ± 20

2,7

WFF

DFT²
[µm]

Consume
[g/m²]

VOC-content
[g/l] (± 20)

Temperature resistance³

2,1

120

380 ± 20

450

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 120 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 +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.
- ❖ Sufficient supply and exhaust air must be provided.
- ❖ Electrical characteristics according to DIN EN ISO 60079:
- ❖ Breakdown voltage: ≤ 4 kV/DC - Electrode according to DIN 60079-32-2 (sections 4.13.3 and 4.13.4)
- ❖ Surface resistance: ≤ 1 GΩ at 500 V electrode according to DIN EN 61340-2-3
- ❖ Leakage resistance: ≤ 1 MΩ at 500 V electrode according to DIN EN 61340-2-3
- ❖ 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.