

CHING-EP-Zinc dust-Primer EMD 152-HS











Intended use

Zincdust-primer based on epoxy resin with a content of ≥ 94 % zinc dust [Zn (R)] for cathodic corrosion protection with high resistance for steel structures in heavy-duty corrosion protection.

Application

Industrial and hall constructions, airport buildings, warehouses, parking garages, chemical plants, signage systems, engineering structures, tank farms, waste incineration plants, power plant areas, etc.

General information

	Color shades	grey, grayish-red			
	Gloss	mat			
	Mixing ratio	Hardener	per weight [Paint : Hardener]	per volume [Paint : Hardener]	
		Hardener M 026	100 : 11	3 : 1	
	Pot life	approx. 6 - 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 CHING-EP-Thinner EM 01 if necessary.			
	Spraying	Viscosity [DIN 4]	Thinner [%]	Nozzle [mm]	Pressure [bar]
	Cup gun	40 - 90 s	5 - 10	1,5 - 2,5	3 - 5
	Airless (Airmix)	Delivery form	≤ 5	0,28 - 0,45	140 - 240
	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 to Sa 3 with angular blasting media, roughness according to EN ISO 8503-1 medium (G), roughness depth Rz 50-70µm			



Viscosity delivery form

30 - 70 DIN-6-seconds



Drying time¹

Temperature

Dust-dry

Grip resistant

Mech. resilient

Recoatable²

at 80 µm

NC 23/50

20 min

2 h

7 h

2 - 3 h³
7 - 8 h⁴

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 as well as CHING-HYDROVERSAL-Intermediate coating

⁴ with suitable subsequent coating, e.g. 2C-PUR-Top Coat as well as CHING-HYDROVERSAL-Top Coat



Other values

Density
[g/cm³]

Solids
[Weight. %]

Solid volume
[%]
[cm³/kg]

Efficiency¹
[m²/kg]

2,6 ± 0,1

85 ± 3

57 ± 3

220 ± 20

2,7

WFF

DFT²
[µm]

Consume
[g/m²]

VOC-content
[g/l] (± 20)

Temperature resistance³

1,8

70 - 80
Maximum

360 ± 20

385

140°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**

12 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.
- ❖ Experience has shown that the coating system is suitable for vapor phase drying and for operating temperatures of transformers, whereby the specified layer thickness must not exceed by more than double!
- ❖