

CHING-EP-High-Solid-zinc flake-Primer ESD 155

Intended use

Low-solvent, fast-drying 2C-EP-high-solid-zinc flake-primer with cathodic and barrier protection. Suitable for heavy corrosion protection on steel in combination with suitable 2C-EP-PUR subsequent coatings. Due to its good adhesion properties this product can also be used for manually derusted steel or as a stain primer for damage to hot-dip galvanized steel.

Processing and good drying even at low temperatures up to +3°C.

Application

Transformers, bridge construction, high-rise steel construction, hall construction, lattice structures and substations with high loads and where blasting is not possible

General information

	Color shades	Grey, lightgrey, reddish grey			
	Gloss	mat			
	Mixing ratio	Hardener	per weight [Paint : Hardener]	per volume [Paint : Hardener]	
		Hardener M 053	200 : 15	200 : 26 7,7 : 1	
	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 CHING-EP-Thinner EM 01 if necessary.			
	Spraying	Viscosity [DIN 4]	Thinner [%]	Nozzle [mm]	Pressure [bar]
		Cup gun	40 - 70 s	5 - 10	1,5 - 2,5
	Airless (Airmix)	Delivery form	≤ 3	0,28 - 0,51	140 - 200
	Brush application	Delivery form (best penetration by brush application)			
	Roller application	Delivery form (multiple application is recommended due to structure formation and minimum layer thicknesses)			
	Flow application	n.a.			



	Substrate preparation	Steel free of grease, oil, salt, dust and other adhesion-reducing substances. For requirements from corrosion protection class C5 and offshore, blasting SA 2½ according to ISO 8501-1 with edged abrasive is recommended. Roughness grade according to ISO 8503-1 min. fine (G); roughness dept Rz 10-30 µm. In renovation areas when used as a spot primer: P St 2-3 according to DIN EN ISO 12944-4.				
	Viscosity delivery form	40 - 60 DIN-6-seconds				
	Drying time¹	Temperature	Dust-dry	Grip resistant	Mech. resilient	Recoatable²
	at 80 - 100 µm	NC 23/50	3 h	5 h	7 h	4 - 5 h ³ 3 h ⁴
<p>¹ Based on delivery viscosity! Humidity has a decisive influence on drying!</p> <p>² with itself (not normally required for top and final coats, except possibly for minimum coat thicknesses)</p> <p>³ with suitable subsequent coating e.g. 2C-EP-intermediate coating ESD 30</p> <p>⁴ with suitable subsequent coating e.g. 2C-PUR-top coat ASD 43/47</p>						
	Other values	Density [g/cm ³]	Solids [Weight. %]	Solid volume [%] [cm ³ /kg]		Efficiency¹ [m ² /kg]
		1,6 ± 0,1	81 ± 3	66 ± 3	405 ± 20	5,0
		WFF	DFT² [µm]	Consume [g/m ²]	VOC-content [g/l] (± 20)	Temperature resistance³
		1,4	80 - 100	200 ± 20	320	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>¹ ± 0,5 for 80 µm dry layer thickness (depending on shade)</p> <p>² With layer thicknesses > - µm bubbles may form!</p> <p>³ Dry heat</p>						
	Notes	<ul style="list-style-type: none"> • Storage 12 months (in unopened original container. Store cool but frost protected!) • Processing conditions <ul style="list-style-type: none"> ❖ 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. ❖ Experience has shown that the coating system is suitable for vapour phase drying and for operating temperatures of transformers, whereby the specified layer thickness must not exceed by more than double! ❖ 				