

CHING-HYDRO-EP-Primer HEM 182










Intended use






Fest-drying, water-based 2C-HYDRO-Primer based on epoxy resin with active corrosion protection for blasted steel, aluminium and galvanized steel (swept).

Application

Metal and mechanical engineering, industrial halls, airport buildings, warehouses, multi-storey car parks, chemical plants, pipe bridges, power stations, bridge constructions, etc.

General information

	Color shades	White, lightgrey, grey, sand yellow, red brown, others on request			
	Gloss	mat			
	Mixing ratio	Hardener	per weigth [Paint : Hardener]	per volume [Paint : Hardener]	
		Hardener HM 115 W	100 : 6	100 : 9	
	Pot life	approx. 3 h	NC 23°C/50% End of pot life not visible! Exceeding the pot life causes a reduction of technological values.		
	Stirring / Dilution	Stir the product mechanically before each use. Ready to use after adding hardener. When mechanically stirring in the hardener, the viscosity will increase temporarily. After adding the hardener and adjusting the processing viscosity, allow the mixture to degas for at least 10 minutes. Dilute with deion. Water if necessary.			
	Spraying	Viscosity [DIN 4]	Thinner [%]	Nozzle [mm]	Pressure [bar]
	Cup gun	40 - 90 s	3 - 5	1,5 - 2,5	4 - 5
	Airless (Airmix)	Delivery form	≤ 5	0,28 - 0,45	120 - 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; Steel: blasted Sa 2½, the surface roughness should be "medium (G)" according to ISO 8503-1. Zinc: sweep-blasting according to DIN EN ISO 12944-4					
	Viscosity delivery form	900 ± 100 mPas					
	Drying time¹	Temperature	Dust-dry	Grip resistant	Mech. resilient	Recoatable²	
	at 60 µm	NC 23/50	30 min.	1,5 h	3,5 h	1,5 h ³ 4 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 itself or suitable 2K-EP-subsequent coating e.g. CHING-HYDRO-EP-intermediate coating HEM 33</p> <p>⁴ with suitable subsequent coating e.g. CHING-HYDROVERSAL-top coat HV 43/47 as well as CHING-HYDRO-PUR-top coat HAD 43/47</p>							
	Other values	Density [g/cm³]	Solids [Weight. %]	Solid volume [%] [cm³/kg]		Efficiency¹ [m²/kg]	
		1,3 ± 0,1	62 ± 3	48 ± 3	345 ± 20	5,8	
		WFF	DFT² [µm]	Consume [g/m²]	VOC-content [g/l] (± 20)	Temperature resistance³	
		2,1	60 - 100	170 ± 20	110	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 60 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 18 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 +10°C bis +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! ❖ ❖ The equipments (e.g. spray gun, stirring unit, etc.) should be cleaned with water (tap water) immediately after use. The sooner the cleaning work is one, the better the cleaning effect. Dried material can be cleaned with CHING-Thinner EM 01. 					