

CHINGO-POX-SHS-MIOX-Single coat ESH 00 K

Intended use

Fast-drying, solvent-free, 2C-ultra-high-solid-micaceous iron-single coat based on epoxy resin with high impact strength and abrasion resistance for steel and galvanized steel. This coating material is characterized by high mechanical and chemical resistance, especially to alkaline media, oils, fuels, salts, and diluted acids. When exposed to natural weathering, the color changes and chalking typical of 2C-EP-coatings are possible. In combination with suitable 2C-PUR- and 1C-AY-top coats, the highest requirements for light and UV resistance are met.

Application

Steel structures with heavy-duty corrosion protection, above-ground or underground tank systems, sewage treatment plants, biogas plants, mining, wind turbines, silos for various bulk materials, pipes, etc.

General information

	Color shades	DB-colors and other colors on request				
	Gloss	glossy				
	Mixing ratio	Hardener	per weight [Paint : Hardener]	per volume [Paint : Hardener]		
		Hardener M 071	100 : 20	100 : 35 2,8 : 1		
	Pot life	approx. 30 min.	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	n.a. s	n.a.	n.a.	n.a.
		Airless (Airmix)	Delivery form	≤ 3	0,41 - 0,60	mind. 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: Surface preparation Sa 2½, the surface roughness should be „medium (G)“ according to ISO 8503-1 and -2. Hot-dip galvanized steel: Sweep blast cleaning. Spray galvanized steel: Pre-prime with a suitable 2C-EP-Tie coat (sealer).				
	Viscosity delivery form	1150 - 1650 mPas				
	Drying time¹	Temperature	Dust-dry	Grip resistant	Mech. resilient	Recoatable²
	at 160 µm	NC 23/50	6 h	8 - 10 h	14 - 16 h	14 h ³
<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 a suitable subsequent coating, e.g., 2K PUR topcoat ASD 43/47, PAS 43/47</p> <p>⁴ Note: Before overcoating the fully cured ESH 182 coating, the surface should be roughened, e.g., by sanding.</p>						
	Other values	Density	Solids	Solid volume		Efficiency¹
		[g/cm ³]	[Weight. %]	[%]	[cm ³ /kg]	[m ² /kg]
		1,8 ± 0,1	99,5 ± 0,5	99 ± 1	650 ± 20	4,1
		WFF	DFT²	Consume	VOC-content	Temperature resistance³
	[µm]	[g/m ²]	[g/l] (±20)			
	1,0	150 - 300	250 ± 20	10	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 160 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 24 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 +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. 				