

## CHINGO-POX-SHS-Primer ESH 182

### Intended use

Fast-drying, solvent-free, 2C-ultra-high-solid-epoxy resin primer 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

	<b>Color shades</b>	RAL-colors and other colors on request				
	<b>Gloss</b>	glossy				
	<b>Mixing ratio</b>	<b>Hardener</b>	<b>per weight</b> [Paint : Hardener]	<b>per volume</b> [Paint : Hardener]		
		Hardener M 071	100 : 20	100 : 34 3 : 1		
	<b>Pot life</b>	approx. 30 min.	NC 23°C/50%   Can be re-diluted within this period if necessary.			
	<b>Stirring / Dilution</b>	Stir the product mechanically before each use. Ready to use after adding hardener. Dilute with CHING-EP-Thinner EM 01 if necessary.				
	<b>Spraying</b>	<b>Viscosity [DIN 4]</b>	<b>Thinner [%]</b>	<b>Nozzle [mm]</b>	<b>Pressure [bar]</b>	
		Cup gun	n.a. s	n.a.	n.a.	n.a.
		Airless (Airmix)	Delivery form	≤ 3	0,41 - 0,60	mind. 240
	<b>Brush application</b>	Delivery form				
	<b>Roller application</b>	Delivery form (multiple application is recommended due to structure formation and minimum layer thicknesses)				
	<b>Flow application</b>	n.a.				

	<b>Substrate preparation</b>	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).				
	<b>Viscosity delivery form</b>	1150 - 1650 mPas				
	<b>Drying time<sup>1</sup></b>	<b>Temperature</b>	<b>Dust-dry</b>	<b>Grip resistant</b>	<b>Mech. resilient</b>	<b>Recoatable<sup>2</sup></b>
	at 160 µm	NC 23/50	6 h	8 - 10 h	14 - 16 h	14 h <sup>3</sup>
	<sup>1</sup> Based on delivery viscosity! Humidity has a decisive influence on drying! <sup>2</sup> with itself (not normally required for top and final coats, except possibly for minimum coat thicknesses) <sup>3</sup> with itself or a suitable subsequent coating, e.g., 2K PUR topcoat ASD 43/47, PAS 43/47 <sup>4</sup> Note: Before overcoating the fully cured ESH 182 coating, the surface should be roughened, e.g., by sanding.					
	<b>Other values</b>	<b>Density</b> [g/cm <sup>3</sup> ]	<b>Solids</b> [Weight. %]	<b>Solid volume</b> [%] [cm <sup>3</sup> /kg]		<b>Efficiency<sup>1</sup></b> [m <sup>2</sup> /kg]
		1,6 ± 0,1	99,5 ± 0,5	99 ± 1	670 ± 20	4,2
		<b>WFF</b>	<b>DFT<sup>2</sup></b> [µm]	<b>Consume</b> [g/m <sup>2</sup> ]	<b>VOC-content</b> [g/l] (± 20)	<b>Temperature resistance<sup>3</sup></b>
		1,0	150 - 300	240 ± 20	1	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. <sup>1</sup> ± 0,5 for 160 µm dry layer thickness (depending on shade) <sup>2</sup> With layer thicknesses > µm bubbles may form! <sup>3</sup> Dry heat					
	<b>Notes</b>	<ul style="list-style-type: none"> <li>• <b>Storage</b> 24 months (in unopened original container. Store cool but frost protected!)</li> <li>• <b>Processing conditions</b> <ul style="list-style-type: none"> <li>❖ 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.</li> <li>❖ Sufficient supply and exhaust air must be provided.</li> </ul> </li> </ul>				