

CHING-HYDROVERSAL-single-layer coating HV 03 K

Intended use

Water-based, quick-drying, early loadable, micaceous iron containing single-layer paint for steel, galvanized steel, stainless steel, aluminum, and aluminum castings.

Application

Chemical plants, waste incineration plants, transformers and radiators, transformer stations, steel structures such as multi-storey car parks, cranes, tank systems, pipe bridges, bridge structures, etc.

General information

	Color shades	DB-, RAL-, NCS-. British Standard -, Munsell-, AS-, Federal Standard-, as well as other colors on request				
	Gloss	mat				
	Stirring / Dilution	Stir the product mechanically before each use. Ready to use after adding hardener. Dilute with deion. water if necessary.				
	Spraying	Viscosity [DIN 4]	Thinner [%]	Nozzle [mm]	Pressure [bar]	
	Cup gun	30-50 s	5 - 10	1,5 - 2,0	4 - 5	
	Airless (Airmix)	Delivery form	≤ 3	0,28 - 0,45	140 - 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 12944-4; surface clean, dry, free of dust, salt, oil and grease as well as free of adhesion-reducing substances (e.g. corrosion products)				
	Drying time¹	Temperature	Dust-dry	Grip resistant	Mech. resilient	Recoatable²
	at 100 µm	NC 23/50	45 min.	3 - 4 h	14 - 16 h	6 - 8 h
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)						



**Viscosity
delivery form**

20 - 50 DIN-6-seconds



**Other
values**

Density [g/cm ³]	Solids [Weight. %]	Solid volume [%] [cm ³ /kg]		Efficiency ¹ [m ² /kg]
1,4 ± 0,1	62 ± 5	53 ± 5	390 ± 20	3,9
WFF	DFT ² [µm]	Consume [g/m ²]	VOC-content [g/l] (± 20)	Temperature resistance ³
2,0	80 - 100	250 ± 20	125	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.

¹ ± 0,5 for 100 µm dry layer thickness (depending on shade)

² With layer thicknesses > - µm bubbles may form!

³ Dry heat



Notes

- **Storage**
18 months (in unopened original container. Store cool but frost protected!)
- **Processing conditions**
 - ❖ The air and object temperature should be at +10°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.
 - ❖ The equipment (e.g. spray gun, stirring unit etc.) should be cleaned directly after the use with water (tap water). The sooner the cleaning work is carried out, the better the cleaning effect. Dired-on material can be cleaned with CHING-Thinner VH 01.