

## CHING-HYDRO-PUR-Primer HSDD 186 K











### Intended use

Fest-drying, water-based 2C-HYDRO-Primer based on polyurethane with active corrosion protection for steel, galvanized steel, aluminium, cast aluminum and gray cast iron.

### Application

Machinery and equipment manufacturing, vehicle manufacturing, transformer and motor manufacturing

### General information

	<b>Color shades</b>	Grey, red brown, pebble grey, others on request			
	<b>Gloss</b>	mat			
	<b>Mixing ratio</b>	<b>Hardener</b>	<b>per weight</b> [Paint : Hardener]	<b>per volume</b> [Paint : Hardener]	
		Hardener HD 127	100 : 3	100 : 3,5	
	<b>Pot life</b>	approx. 3 h	NC 23°C/50%   End of pot life not visible! Exceeding the pot life causes a reduction of technological values.		
	<b>Stirring / Dilution</b>	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.			
	<b>Spraying</b>	<b>Viscosity [DIN 4]</b>	<b>Thinner [%]</b>	<b>Nozzle [mm]</b>	<b>Pressure [bar]</b>
	Cup gun	30 - 50 s	5 - 10	1,5	4 - 5
	Airless (Airmix)	Delivery form	≤ 3	0,28 - 0,45	120 - 200
	<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. Surface clean, dry and free from salt, dust, rust, oil, grease and corrosion products			



**Viscosity delivery form**

25 - 35 DIN-6-seconds



**Drying time<sup>1</sup>**

at 60 µm

**Temperature**

NC 23/50

**Dust-dry**

30 min.

**Grip resistant**

1 - 2 h

**Mech. resilient**

3 - 4 h

**Recoatable<sup>2</sup>**

2 - 3h<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 suitable subsequent coating e.g. HSDD 37 or HSDD 47 semi-glossy



**Other values**

**Density**  
[g/cm<sup>3</sup>]

1,3 ± 0,1

**Solids**  
[Weight. %]

62 ± 3

**Solid volume**  
[%]

52 ± 3

[cm<sup>3</sup>/kg]

390 ± 20

**Efficiency<sup>1</sup>**  
[m<sup>2</sup>/kg]

6,5

**WFF**

1,9

**DFT<sup>2</sup>**  
[µm]

60 - 100

**Consume**  
[g/m<sup>2</sup>]

150 ± 20

**VOC-content**  
[g/l] (± 20)

85

**Temperature resistance<sup>3</sup>**

100°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 60 µm dry layer thickness (depending on shade)

<sup>2</sup> With layer thicknesses > µm bubbles may form!

<sup>3</sup> 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.