

## CHING-HYDRO-Welding primer WS 181

### Intended use

Water-based, weldable, quick drying and universally reworkable sprayprimer for industrial use with a welding certificate from SLV Duisburg

### Application

Temporary corrosion protection for blasted steel

### General information

	<b>Color shades</b>	Red-brown, approx. RAL 7032, others on request				
	<b>Gloss</b>	mat				
	<b>Stirring / Dilution</b>	Stir the product mechanically before each use. Ready to use after adding hardener. 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	20-40 s		1,0 - 1,5	3 - 5	
	Airless (Airmix)	n.a.	-	-	-	
	<b>Brush application</b>	Delivery Form				
	<b>Roller application</b>	Delivery form (not recommended for corrosion protection work due to possible blistering and crater formation and expected minimum layer thicknesses)				
	<b>Flow application</b>	n.a.				
	<b>Substrate preparation</b>	according to DIN EN ISO 12944-4; Steel: blasted Sa 2 ½				
	<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 25 µm	NK 23/50	10 min.	15 min.	25 min.	1 h <sup>3</sup>
<p><sup>1</sup> Based on delivery viscosity! Humidity has a decisive influence on drying!</p> <p><sup>2</sup> with itself (not normally required for top and final coats, except possibly for minimum coat thicknesses)</p> <p><sup>3</sup> with suitable subsequent coating</p>						



**Viscosity  
delivery form**

30 - 40 DIN-4-seconds



**Other  
values**

Density [g/cm <sup>3</sup> ]	Solids [Weight. %]	Solid volume [%] [cm <sup>3</sup> /kg]		Efficiency <sup>1</sup> [m <sup>2</sup> /kg]
1,7 ± 0,1	70 ± 3	49 ± 3	290 ± 20	11,7
WFF	DFT <sup>2</sup> [µm]	Consume [g/m <sup>2</sup> ]	VOC-content [g/l] (± 20)	Temperature resistance <sup>3</sup>
2,0	20-30	85 ± 20	50	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 25 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.