

CHING-PUR-Primer AD 182 K











Intended use

Quick-drying, active pigmented primer based on polyurethane resin for steel substrates with excellent anti-corrosion properties.

Application

General metal- and mechanical engineering

General information

	Color shades	RAL-, NCS-, British-Standard-, Munsell-, AS-, Federal Standard- and special colors			
	Gloss	mat			
	Mixing ratio	Hardener	per weight [Paint : Hardener]	per volume [Paint : Hardener]	
		Hardener D 101	100 : 8	100 : 11	
	Pot life	approx. 2 - 3 h	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-PUR-Thinner DD 01 if necessary.			
	Spraying	Viscosity [DIN 4]	Thinner [%]	Nozzle [mm]	Pressure [bar]
	Cup gun	30 - 50 s	5 - 15	1,5 - 2,5	4 - 5
	Airless (Airmix)	Delivery form	≤ 5	0,31 - 0,51	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, rust oil and grease as well as free of adhesion-reducing substances (e.g. corrosion products)			



Viscosity delivery form

50 - 90 DIN-6-seconds



Drying time¹

at 40 µm

Temperature

NC 23/50

Dust-dry

30 min

Grip resistant

3 - 4 h

Mech. resilient

6 - 8 h

Recoatable²

6 - 8 h³

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) If stored in a weather-free environment, the base coat can be recoated with the above-mentioned topcoats for up to three months without sanding. The surface must be free of dust, dirt, oil, salt, grease, or other contaminants.

³ with suitable subsequent coating e.g. CHING-2C-PUR-top coating, CHING-2C-HYDRO-PUR-top coatings or CHING-1C-HYDROVERSAL-primer, intermediate- or top coatings



Other values

Density
[g/cm³]

1,5 ± 0,1

Solids
[Weight. %]

71 ± 5

Solid volume

[%]

59 ± 5

[cm³/kg]

390 ± 20

Efficiency¹

[m²/kg]

9,8

WFF

1,7

DFT²

[µm]

40 - 60

Consume

[g/m²]

100 ± 20

VOC-content

[g/l] (± 20)

410

Temperature resistance³

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 40 µm dry layer thickness (depending on shade)

² With layer thicknesses > µm bubbles may form!

³ Dry heat



Notes

- **Storage**

24 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.