# CHING-PUR-ATEX-Top coat
# ADD 47 SEMI GLOSS ATEX H L

## Intended use

Thick-layer, electrically conductive, light- and weather-resistant 2C-polyurethane-topcoat for two-component system buildups on suitable primer or intermediate coat. Complies with the requirements of ATEX Directive 94/9/EC (ATEX 95).

## Application

Electrolysis plants, machine and plant construction, warehouses, chemical plants, industrial- and hall construction, tank facilities, power plant sector, etc.

## General information

| | | | | | |
|---|---|---|---|---|---|
|  | **Color shades** | RAL-, NCS-. British Standard -, Munsell-, AS-, Federal Standard- and special colors - very light shades conditionally prescription | | | |
|  | **Gloss** | semi-glossy | | | |
|  | **Mixing ratio** | **Hardener** | **per weigth** [Paint : Hardener] | **per volume** [Paint : Hardener] | |
| | | Hardener D 101 | 100 : 17<br>6 : 1 | 100 : 22<br>4,5 : 1 | |
|  | **Pot life** | approx. 4 - 6 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.<br>Dilute with CHING-PUR-Thinner DD 01 if necessary. | | | |
|  | **Spraying** | **Viscosity** [DIN 4] | **Thinner** [%] | **Nozzle** [mm] | **Pressure** [bar] |
| | Cup gun | 30 - 40 s | 5 - 10 | 1,5 - 2,5 | 3 - 5 |
| | Airless (Airmix) | Delivery form | ≤ 3 | 0,28 - 0,33 | 120 - 200 |
|  | **Brush application** | Delivery form | | | |
|  | **Roller application** | Delivery form<br>(multiple application is recommended due to structure formation and minimum layer thicknesses) | | | |
|  | **Flow application** | n.a. | | | |


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| | |
|---|---|
| **Substrate preparation** | according to DIN EN ISO 12944-4; qualified primer and/or intermediate coating. Surface clean, dry and free of dust, salt, oil and grease |
| **Viscosity delivery form** | 30 - 70 DIN-6-seconds |

| **Drying time**[1] | **Temperature** | **Dust-dry** | **Grip resistant** | **Mech. resilient** | **Recoatable**[2] |
|---|---|---|---|---|---|
| at 80 µm | NC 23/50 | 1 h | 6 h | 20 h | 16 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)

**Other values**

| **Density** [g/cm³] | **Solids** [Weight. %] | **Solid volume** [%] | [cm³/kg] | **Effiency**[1] [m²/kg] |
|---|---|---|---|---|
| 1,3 ± 0,1 | 70 ± 5 | 55 ± 5 | 405 ± 20 | 5,1 |

| **WFF** | **DFT**[2] [µm] | **Consume** [g/m²] | **VOC-content** [g/l] (± 20) | **Temperature resistance**[3] |
|---|---|---|---|---|
| 1,8 | 80 | 195 ± 20 | 400 | 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 80 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.
  - Electrical characteristics according to DIN EN ISO 60079:
  - Breakdown voltage: ≤ 4 kV/DC - Electrode according to DIN 60079-32-2 (sections 4.13.3 and 4.13.4)
  - Surface resistance: ≤ 1 GΩ at 500 V - Electrode according to DIN EN 61340-2-3
  - Leakage resistance: ≤ 1 GΩ at 500 V - Electrode according to DIN EN 61340-2-3
  - Caution: When using the product as an electrically conductive coating, care must be taken to ensure that the specified layer thickness is adhered to as closely as possible. Overcoat thicknesses must not exceed twice the specified layer thickness, as otherwise compliance with the requirements of ATEX Directive 94/9/EC (ATEX 95) cannot be guaranteed.


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