# CHING-EP-MIOX-Intermediate-/Top coat 687.12-14

## Intended use

2C-EP-micaceous iron-intermediate-/ top coat with high resistance for steel structures in heavy corrosion protection according to TL/TP-KOR-steel structures, Appendix E - Sheet 87.

## Application

Bridge construction, airport buildings, warehouses, parking garages, chemical plants, sign gantries, engineering structures, industrial and hall construction, tank facilities, waste incineration plants, power plants, etc

## General information

| | | | | | |
|---|---|---|---|---|---|
| | **Color shades** | Grey DB 702, grey DB 703, green DB 601 | | | |
| | **Gloss** | mat | | | |
| | **Mixing ratio** | **Hardener** | **per weigth** [Paint : Hardener] | **per volume** [Paint : Hardener] | |
| | | Hardener M 052 | 100 : 5 | 100 : 10 | |
| | **Pot life** | approx. ≥ 8 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 Thinner 687.150 if necessary. | | | |
| | **Spraying** | **Viscosity** [DIN 4] | **Thinner** [%] | **Nozzle** [mm] | **Pressure** [bar] |
| | Cup gun | 40 - 70 s | 5 - 10 | 1,5 - 2,5 | 3 - 5 |
| | Airless (Airmix) | Delivery form | ≤ 5 | 0,31 - 0,51 | 140 - 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. | | | |
| | **Substrate preparation** | according to DIN EN ISO 12944-4; Steel: qualified primer and/or intermediate coating. Surface clean, dry and free of dust, salt, oil and grease. Galvanized steel: swept | | | |


Chemische Industrie Erlangen GmbH * Rathenaustr. 18 * 91052 Erlangen * www.ching-coatings.com * info@ching-coatings.com * ☎ +49 9131 3006-0

| | |
|---|---|
| **Viscosity delivery form** | 300 - 900 mPas |

| **Drying time**[1] | **Temperature** | **Dust-dry** | **Grip resistant** | **Mech. resilient** | **Recoatable**[2] |
|---|---|---|---|---|---|
| at 80 µm | NC 23/50 | ≤ 2 h | ≤ 16 h | - | ≥ 16 h[3] |

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)
3 with suitable subsequent coating, e.g. 2C-EP-Intermediate- and 2C-PUR-Top coat according to sheet 87 or sheet 97

**Other values**

| **Density** [g/cm³] | **Solids** [Weight. %] | **Solid volume** [%] | [cm³/kg] | **Effiency**[1] [m²/kg] |
|---|---|---|---|---|
| 1,8 ± 0,1 | 77 ± 3 | 53 ± 3 | 305 ± 20 | 3,8 |

| **WFF** | **DFT**[2] [µm] | **Consume** [g/m²] | **VOC-content** [g/l] (± 20) | **Temperature resistance**[3] |
|---|---|---|---|---|
| 1,9 | 80 | 260 ± 20 | 390 | 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 +7°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.


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