

CHING-EP-zinc dust-Primer, fast-curing 697.03/04










Intended use






Fast-curing, high-resistance, 2C-EP-zinc dust primer for steel structures requiring heavy-duty corrosion protection according to TL/TP-KOR-Stahlbauten (steel structures), Appendix E - Sheet 97;
Also suitable for use in low-temperature applications down to +3°C

Application

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

General information

| | | | | | |
|---|----------------------------|---|--|---|-----------------------|
|  | Color shades | Grey, reddish-grey | | | |
|  | Gloss | mat | | | |
|  | Mixing ratio | Hardener | per weight [Paint : Hardener] | per volume [Paint : Hardener] | |
| | | Hardener M 056 | 100 : 7 | 100 : 21 | |
|  | Pot life | approx. ≥ 2 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 Thinner 697.150 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 | ≤ 3 | 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; Steel, blasted: Surface preparation Sa 2½ to Sa 3, the surface roughness should be „medium (G)“ according to ISO 8503-1 and -2 | | | | |
|  | Viscosity delivery form | 200 - 800 mPas | | | | |
|  | Drying time¹ | Temperature | Dust-dry | Grip resistant | Mech. resilient | Recoatable² |
| | at 80 µm | NC 23/50 | ≤ 1 h | ≤ 4 h | - | ≥ 2 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/cm ³] | Solids [Weight. %] | Solid volume | | Efficiency¹ [m ² /kg] |
| | | 2,4 ± 0,1 | 83 ± 3 | [%] | [cm ³ /kg] | 2,6 |
| | | WFF | DFT² [µm] | Consume [g/m ²] | VOC-content [g/l] (± 20) | Temperature resistance³ |
| | | 2,0 | 80 | 385 ± 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 | <ul style="list-style-type: none"> • Storage 12 months (in unopened original container. Store cool but frost protected!) • Processing conditions <ul style="list-style-type: none"> ❖ The air and object temperature should be at +3°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. | | | | |