

CHING-EP-High-Solid-Primer ESD 182 white K-DB

Intended use









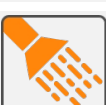
Thick-layer, low-solvent, fast-curing, 2-component EP high-solids primer for indoor and outdoor use on transformer tanks, and for use in systems with a suitable intermediate and/or topcoat for heavy-duty corrosion protection outdoors. Resistant to all commercially available mineral, silicone, and natural and synthetic ester oils (insulating fluids).






Also suitable for use in low-temperature ranges down to +3°C.

Application

Industrial goods, mechanical and plant engineering, bridge construction, airport buildings, warehouses, multi-storey car parks, chemical plants, sign gantries, engineering buildings, industrial and hall construction, tank farms, waste incineration plants, power stations, etc.

General information

| | | | | | |
|---|----------------------------|--|--|---|-----------------------|
|  | Color shades | white | | | |
|  | Gloss | mat | | | |
|  | Mixing ratio | Hardener | per weight [Paint : Hardener] | per volume [Paint : Hardener] | |
| | | Hardener M 050 | 100 : 12 | 100 : 20 5 : 1 | |
|  | Pot life | approx. 1 - 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 CHING-EP-Thinner EM 01 if necessary. | | | |
|  | Spraying | Viscosity [DIN 4] | Thinner [%] | Nozzle [mm] | Pressure [bar] |
| | | Cup gun | 40 - 70 s | 5 - 10 | 1,5 - 2,5 |
| | Airless (Airmix) | Delivery form | ≤ 3 | 0,28 - 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: Sa 2½, the surface roughness should be "medium (G)" according to ISO 8503-1. Zinc, aluminium and stainless steel: sweep-blasting according to DIN EN ISO 12944-4 | | | | | |
|  | Viscosity delivery form | 30 - 60 DIN-6-seconds | | | | | |
|  | Drying time¹ | Temperature | Dust-dry | Grip resistant | Mech. resilient | Recoatable² | |
| | at 80 µm | NC 23/50 | 30 min | 1,5 h | 2,5 h | 2 h ³ 3 h ⁴ | |
| 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 coating ESD 30 ⁴ with suitable subsequent coating e.g. 2C-PUR-top coat ASD 43/47 | | | | | | | |
|  | Other values | Density [g/cm³] | Solids [Weight. %] | Solid volume [%] [cm³/kg] | | Efficiency¹ [m²/kg] | |
| | | 1,5 ± 0,1 | 83 ± 3 | 73 ± 3 | 470 ± 20 | 5,9 | |
| | | WFF | DFT² [µm] | Consume [g/m²] | VOC-content [g/l] (± 20) | Temperature resistance³ | |
| | | 1,4 | 80 - 120 | 170 ± 20 | 250 | 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 24 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. ❖ Experience has shown that the coating system is suitable for vapour phase drying and for operating temperatures of transformers, whereby the specified layer thickness must not exceed by more than double! ❖ | | | | | |