



TECHNICAL DATA SHEET

ECLON EP + ECLON EP QUICK Micaceous iron oxide coat

2-pack thick-film steel primer

Art.-Nr. 1611.

Product description

ECLON EP and ECLON EP QUICK micaceous iron oxide coats are high grade intermediate and top scale-coat primer that can be subjected to mechanical and chemical fatigue. Very high film thicknesses can be attained with single-layer application. ECLON EP QUICK dries considerably faster on deep temperature than the standard type.

Application Area

Use on chemical installations, hydraulic steelwork, tank construction, bridge construction, mast construction and steel-framed structures in general. Generally used as an intermediate coat in the system, or as an adhesion layer on abrasive-blasted galvanized areas and high grade steel.

Binder

Epoxy resin, polyamide

Pigments

Micaceous iron ore, aluminum, inorganic pigments, fillers

Solvents

Aromatic compounds, ester

Substrate preparation

Oil and grease-free primers on a 2-component base or adhesives setting with humidity. Remove all saline deposits by brushing or steam cleaning.

Application methods

Airless spraying, brush and roller

recommended film thickness

Mixing ratio

Pot live (20°C)

Application conditions

Viscosity

- at delivery
- application (Airless)

Thinner

Equipment cleaning

Drying (at 20° C/ 60 µm)

ECLON EP micaceous iron oxide 1:1 with hardener V-5795	ECLON EP QUICK 1:1 with hardener A-2497
usually 80 µm; ≤ 150 µm / pass are possible	
1:1 weight parts with V-5795	1:1 with hardener A-2497
> 32 hours	> 6 hours
Minimum temperature ≥ +10° C (Object- and air temperature) ≤ 80% rel. Humidity The dew point interval must be taken into account!	≥ 0° C (Object- and air temperature) ≤ 80% rel. Humidity The dew point interval must be taken into account!
thixotrope	thixotrope
add about 5% thinner	add about 5% thinner
Spray thinner T-1900 or A-2314; brush and roller thinner: A-851	
Nitro- or cleaning- thinner; application thinner	
dust dry after: ca. 40 minutes	ca. 30 minutes
fast to handling: ca. 3 hours	ca. 1 hour

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Overpainting

20° C/ 60 µm	after 6 h	20° C/ 60 µm	after 1 h
10° C/ 60 µm	after 24 h	0° C/ 60 µm	after 24 h
On higher film thickness the waiting time before overpainting extends corresponding: for ex. 150 µm / 20° C: > 24 h			

Full stress after

5 days of drying at 20° C and 60 µm DFT

Corrosion protection test

Salt spray test on 2K-EP Zinc Dust Primer or FH Zinc Dust Primer for a minimum of 1'000 hours without indications of under film corrosion.

Shelf life

At least 1 year at room temperature in unopened original packing drums

Flashpoint

> 21° C

Density

Mixture: 1.4 kg/l

Solids content

Weight = 76 ± 2 % Volume = 58 ± 2 %

Material consumption
(spray application)

Theoretical at 60 µm: 149 g/m²
Practical at 60 µm: 313 g/m²

The information about practical coverage is an average derived for spray application. The actual coverage can vary depending on object geometry and application mode.

Packaging

10/10; 5/5; kg

Gloss

matt or satin, depending on application

Colour shades

According to our steel primer-, or to the DB (German Railways) colour chart:
F 100 silver F 103 anthracite

IMPORTANT!!

Due to limited gloss and colour retention when exposed to weather conditions, **not all colour shades** can be used **on exteriors** (epoxy specific).

Product group

2-component primers, solvent-poor (chapter 4)

Revised

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Please forward this data sheet to the user!

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