

ECLAPOX EP

2K-phosphate primer

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VFL
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Properties

ECLAPOX EP 2K-phosphate primer and the ECLAPOX EP Quick variant, which is created by using the appropriate hardener, offer protection and adhesion in one. Both are particularly characterized by fast drying, high mechanical strength, chemical resistance and very good adhesion and corrosion protection. ECLAPOX EP can also be processed at temperatures down to 0 °C.

Field of application

As a broadly applicable corrosion protection primer in the entire steel and metal construction. In chemical construction as a chemical-resistant primer. Also as an excellent adhesion primer on various aluminium alloys such as copper, brass and zinc.

Pretreatment

Oil and grease deposits must be removed with solvents or emulsifier solutions. Salts or other water-soluble impurities must be removed with water and/or steam jet (according to EN/ISO 8502). Optimum adhesion is achieved by sandblasting, preferably grade Sa 2½ (EN/ISO 8501).

Attention: Always carry out preliminary tests when painting plastics.

Corrosion products of zinc must be removed as follows:

- Dust blasting.
- With a solution consisting of 10 l water and 0,5 l ammonia 25 % and a small addition of a household cleaner, the surface is sanded with a synthetic fleece (e.g. Scotch-Brite Pad 3M). A foam is formed which is left to work for about 10 minutes. Afterwards, the surface is sanded again until the foam is metallic grey. Afterwards, rinse very well with water and let it dry.

Processing

With Hardener A-2604

A minimum temperature of $\geq +8$ °C (object and air temperature) must be observed.

With Hardener Quick A-2605 for 2K-ECLAPOX EP

A minimum temperature of $\geq +0$ °C (object and air temperature) must be observed.

The dew point must be observed.

System structure

1–2 x ECLAPOX EP 2K-phosphate primer in the desired shade

ECLAPOX EP 2K-phosphate primer adheres to the following materials:

Drawn steel / Steel / Hot galvanized base
Casting / Pressed steel / Galvanized substrate
Aluminium and its alloys (dust blasting) / Many plastics

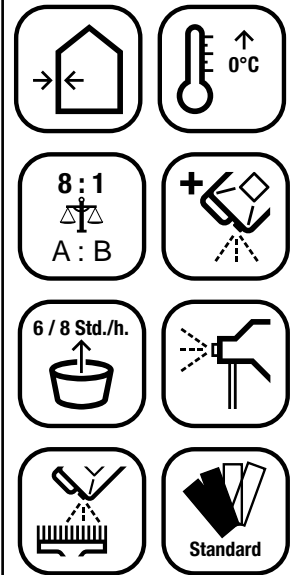
Coating thickness application


30–100 µm (depending on load)

Drying

Hardener A-2604 (60 µm application) – At 20 °C substrate temperature:

- ◆ Dust dry after about 30 minutes
- ◆ Tack-free after approx. 1 hour
- ◆ Firm to the touch after approx. 2 hours
- ◆ Recoatable at 20 °C after about 2 hour and at 8 °C after 48 hours.



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Hardener Quick A-2605 for 2K-ECLAPOX EP (60 µm application) – At 20 °C substrate temperature:

- ◆ Dust dry after about 15 minutes
- ◆ Tack-free after about 20 minutes
- ◆ Firm to the touch after approx. 30 minutes
- ◆ Recoatable at 20 °C after about 1 hour and at 0 °C after 24 hours.

Dilution

For spraying dilute with ECLASOLV T-1900 PU spray thinner or ECLASOLV A-2314 EP diluent and for rolling and brushing dilute with ECLASOLV A-851 PU brush thinner.

Hardener A-2604

- Spreadable viscosity Approx. 6 % thinner addition.
- Spray viscosity: Approx. 20 % thinner addition.

Hardener Quick A-2605 for 2K-ECLAPOX EP

- Spreadable viscosity Approx. 4 % thinner addition.
- Spray viscosity: Approx. 15 % thinner addition.

With the above mentioned dilution a spray viscosity of about 60 seconds DIN 4mm is achieved. Since the material is thixotropic, the DIN 4mm cup is only suitable to a limited extent.

Extensiveness

Hardener A-2604

Theoretically bei 60 µm 158g per m² / Practical: Factor 2.0-2.4 depending on object geometry

Hardener Quick A-2605 for 2K-ECLAPOX EP

Theoretically bei 60 µm 164g per m² / Practical: Factor 2.0-2.4 depending on object geometry

The information on practical consumption corresponds to an average value for a spray application. Practical consumption can vary greatly, depending on the object geometry and the method of application.

Mixing ratio

Hardener A-2604

8 parts by weight component A and 1 part by weight component B (8 : 1).

Hardener Quick A-2605 for 2K-ECLAPOX EP

8 parts by weight component A and 1 part by weight component B (8 : 1).

Pot life

Hardener A-2604 = > 8 hours at 20 °C

Hardener Quick A-2605 for 2K-ECLAPOX EP = > 6 hours at 20 °C.

Application

Air and airless spraying, brushing or rolling.

Cleaning

Clean tools immediately after use with nitro, universal or cleaning thinner.

Delivery form

Packages (including hardener) of 18, 9 and 4,5 kg.

Shelf life

ECLAPOX EP can be stored for at least 12 months in the well closed original container. Storage beyond this specified period does not necessarily mean that the goods are unusable. However, for quality assurance reasons, it is essential to check the required property values.

The hardener can be stored for at least 12 months in well-sealed original containers. Storage beyond this specified period does not necessarily mean that the goods are unusable. However, for quality assurance reasons, it is essential to check the required property values.

Viscosity

Thixotrope

Density

With Hardener A-2604 = 1,53 ± 0,05 g/cm³

With Hardener Quick A-2605 for 2K-ECLAPOX EP = $1,62 \pm 0,05 \text{ g/cm}^3$

Solid content

With Hardener A-2604

Weight = $77 \pm 2 \%$ / Volume = $59 \pm 2 \%$

With Hardener Quick A-2605 for 2K-ECLAPOX EP

Weight = $77 \pm 2 \%$ / Volume = $58 \pm 2 \%$

Binder base

Polyamide cured epoxy resin

Solvents

Aromatics, esters, ethers and alcohols.

Pigment base

Inorganic and organic colored pigments and phosphates.

Gloss level

Matt

Colours

According to colour chart RAL, NCS or according to template.

Standard colours: RAL 7035 Light grey / RAL 7012 Basalt grey / RAL 7016 Anthracite grey / RAL 6003 Olive green / RAL 6013 Reed green

Attention: As with all epoxy-based products, light colours are likely to yellow when exposed to light and weather!

Registration

Components A: CPID 558245

Components B: CPID 558881 Hardener A-2604

Components B: CPID 728178 Hardener Quick A-2605

Classification

For information on chemical properties and hazards as well as regulations regarding transport, processing, storage, disposal, etc., please refer to the safety data sheet.

Note

The specified solid value, density and coverage may vary depending on the color shade. Calculation basis: Color shade white

This leaflet is only intended as a reference and non-binding advice. The processing must be adapted to the corresponding conditions. In special cases we recommend to contact our technical service. However, all data and information on the suitability and application of the delivered products do not exempt the processor from carrying out his own tests and trials. A claim for damages for omitted, incomplete or incorrect information is excluded. This applies in particular if thinners or hardeners and other products are used in the paint build-up system.

Furthermore, we refer to our General Terms and Conditions (GTC) on our homepage.