

Epoxy-Ester Primer 5206

Corrosion protection primer that contains zinc phosphate and is resistant to oil and chemicals and based on epoxy ester



Field of application

Highly weather-resistant coatings are achieved in conjunction with suitable top coat systems (see coating suggestion). Ideally suited for appliances, automotive accessories, agriculture and construction machines, machinery, engines/drives, commercial vehicles, shelves, silos, steel tanks, doors and fence systems as well as residential containers and portacabins.

Properties

- High chemical resistance
- Very good resistance to oil and heating oil
- Outstanding corrosion protection
- Very good adhesion even on difficult substrates
- Quick drying

Material description

Basis	Epoxy ester
Color shades	Beige, red-brown, light gray, white, black The color shade "red-brown" is available at short notice via the quick-delivery service.
Gloss grade	Matt
Density	1.22–1.35 g/cm ³ (in accordance with DIN EN ISO 2811) ¹⁾
Theoretical yield	284–315 m ² /kg (at 1 µm dry layer) ¹⁾
Solids content	53–62 wt % ¹⁾
Delivery viscosity at 20°C	40–70 sec./DIN 4 mm ¹⁾
Stability	150–250 µm (wet film)

¹⁾ Dependent on the color shade

Material description

Salt spray test	Delamination at the crack ≤ 2 mm (in accordance with DIN EN ISO 4628-8 ²⁾ On degreased steel ³⁾ : ≥ 480 h on SA 2 1/2 blasted steel: ≥ 240 h (in accordance with DIN EN ISO 9227-NSS)
Condensation water test	Degree of blistering 0 (S0) (in accordance with DIN EN ISO 4628-2) ²⁾ On degreased steel ³⁾ : ≥ 240 h on SA 2 1/2 blasted steel: ≥ 240 h (in accordance with DIN EN ISO 6270-2)
Flash point	$> 23^{\circ}\text{C}$
Labeling	See current safety data sheet

- ²⁾ in build-up with recommended top coat systems according to coating recommendation
³⁾ Gardobond OC

Coating recommendation

Substrates ⁴⁾	Prime coat	Intermediate coat	Top coat
Steel Preferably sand-blasted (degree of cleanliness min. SA 2 1/2 in accordance with DIN EN ISO 12944, part 4)	Epoxy-Ester Primer 5206 30–70 μm	Normally not required. For top coats in intense color shades, an intermediate coating in color shade RAL 9010 (approx. 40 μm) is required with 5461–9010 (see the technical data sheet 5460, 5461, 5462)	Synthetic resin varnish 5460, 5461, 5462 40–60 μm
Cast among others			

- ⁴⁾ The substrate must generally be free of fats, oils, separating and drawing agents, as well as dirt and corrosion products including impurities.

Use

	Stir the material homogeneously before application.
Compatibility	Can only be combined with the thinners and top coats specified in this technical data sheet.
Application temperature	$> 10^{\circ}\text{C}$ (object temperature 3°C above the dew point)
Thinning	Spray thinning 5121. Stir the material homogeneously before application
Humidity	$< 75\%$ relative humidity

Application method

Application method	Air spraying, airless spraying, air-mix spraying, dip application, roller application, brush application.
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Drying

Air drying
(at +20°C, 65% relative
humidity)
Oven drying

Dust dry after 40–60 minutes, non-sticky after approx. 2 hours, cured and recoatable after approx. 24 hours. Hardened after 6–7 days.

Ensure a flash-off time of approx. 30 minutes. Afterwards stove the paint for approx. 30 minutes at an object temperature of 80°C or approx. 60 minutes at an object temperature of 60°C.

Allow longer drying times when temperatures are lower and/or humidity is higher!

Spray data

Method	Nozzle opening	Pressure	Application consistency ⁵⁾
Air spraying	1.2–1.5 mm	3–4 bar	25–35 sec.
Airless spraying	0.28–0.38 mm	100–200 bar (material)	40–45 sec.
Air-mix spraying	0.28–0.38 mm	100–200 bar (material) 1–3 bar (air)	40–45 sec.
Dipping	-	-	40–45 bar

⁵⁾measured in a DIN 4 mm flow cup

Container sizes

30 kg, 200 kg, 1,000 kg

In quick delivery service: 30 kg. Additional container sizes on request.

Storage time

24 months after receipt of goods.

Store in a sealed container in a dry place and at room temperature (at most 25°C). Protect from heat sources and direct sunlight. Always keep the containers tightly sealed. Protect the contents from drying out. Dried paint residues and any surface-dried skin are insoluble in the paint and can only be removed by straining.

Minimum shelf life

Refer to label

Dipping bath stability

In order to achieve optimum dipping bath stability, the turnover must not fall below a value of 1 per year. Influencing parameters such as the carryover of impurities and pre-treatment media, temperature, viscosity, solid, conductivity, co-solvent and pH fluctuations or other deviations of the bath parameters stipulated here and in the bath records and system failures/malfunctions such as interruption of paint circulation or defects in the filtration unit result in stability problems in the paint system which may not be rectifiable. In order to ensure the dipping bath stability, the user must carry out and keep records of daily bath checks and have the dipping bath tested on a monthly basis by the supplier. The user must clean the dipping bath completely once a year.

This technical data sheet is based on extensive development work and years of practical experience. Its content does not constitute a contractual legal relationship. The user/buyer is not released from the responsibility of checking our products to ensure they are suitable for the intended application. In addition, our general terms of business apply.

Upon publication of a new version of this technical data sheet as a result of new technical developments, all of the information provided above becomes invalid. You can obtain the latest version from your Brillux consultant or at www.brillux-industrielack.de, version 12, as required.

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