

Technical Data Sheet

2C Epoxy Primer 5709.-.3100



Universal corrosion protection primer based on two-component epoxy resin for metallic surfaces

Field of application

For many areas, with the highest demands on corrosion protection properties and/or chemical resistance and at the same time excellent mechanical strain e. g.: heating oil- and boiler tanks, goods and tank wagons, agricultural machinery, lorries- and automobile accessories, living and construction containers, doors, frames, construction elements, profiles, facades, gate- and fences systems, windows, metal fittings, steel constructions, pallets, silos etc.

Properties

- excellent corrosion protection
- very good chemical and solvent resistance
- excellent adhesion even on difficult surfaces
- high wet film stability at good levelling properties
- abrasion-resistant with a high mechanical resistance
- can be painted over, using commercial paint qualities, synthetic resin paint, 2C PUR-, acryl- and 2C EP-systems
- after full curing/cross-linking, the paint film is physiologically safe

Technical data

Basis	Epoxy resin combination
Colors	Beige red
Degree of gloss	Matt
Density	1.47 to 1.57 g/cm ³ (in accordance with DIN EN ISO 2811)
Theoretical coverage	approx. 250 m ² /kg (with 1 µm dry film thickness) ¹⁾
Solids content	66 to 70 weight-%
Delivery viscosity at 20 °C	250-350 mPas
Stability	approx. 200 µm (wet film)
Flash point	> 23 °C
Labeling	See current safety data sheet.

¹⁾ in mixture

Approvals/permits Testing and approval according to TL 918300, Sheet 3 of Deutsche Bahn. Conformity test by IFO, Schwäbisch Gmünd, test protocol 29672 Rev.01.

Coating recommendation

Substrates ²⁾	Prime coat	Intermediate coat ³⁾	Top coat ³⁾
Steel preferably sand-blasted (degree of purity at least SA 2 ½ in accordance with DIN EN ISO 12944, Part 4), iron or zinc-phosphated.	2C Epoxy Primer 5709.-.3100 40 to 60 µm	If required (specified film thickness), a second layer can be applied using the corresponding primer.	Synthetic Resin Paint 5460, 5461, 5462 30 to 50 µm
Cast iron			
Galvanized steel			
Aluminum			2C PUR Acrylic Paint 5740, 5741, 5742, 5743 40 to 80 µm
Eloxal			
Non-ferrous metals			

²⁾ Generally, the substrate should be free from grease, oil, separating and drawing agents as well as corrosion products and other impurities.

³⁾ The second coating should be done within 48 hours to guarantee a sufficient intermediate adhesion. If the second coating follows after more than 48 hours, the surface should be sanded beforehand.

Hardener

EP-Hardener 5786.-.0200 (standard curing)

Basis Polyaminoamide

Shelf life 12 months after receipt.
Store in a sealed container in a dry place and at room temperature (at most 25 °C). Protect from heat sources and direct sunlight.

Minimum shelf life refer to label

Mixing ratio 5 : 1 weight % (3 : 1 vol.%)

Mixing As 2C system, the actual paint and the hardener are supplied separately and mixed homogeneously in the specified mixing ratio just before application.

Process

	Material has to be stirred until homogenous before application.
Thinner	EP Thinner 5106. Disperse homogeneously by stirring.
Pot life	approx. 8 h (at 20 °C)
Application temperature	> 5 °C (object temperature 3 °C above dew point)
Humidity	< 80 % r. h.
Application consistency at 20 °C	90 to 130 sec./DIN 4 mm
Compatibility	Compatibility is given only in combination with the hardeners, thinners and top coats mentioned in this Technical Data Sheet.
Application	air-mix spraying, air-spraying, roller/brush application.

Drying

Air-drying (at + 20 °C, 65 % r. h.)	Dust-dry after 1 to 2 hours, non-sticky and ready for re-working after 4 to 5 hours, dry after 24 hours. Fully cured after 8 to 10 days.
Oven drying	Allow for approx. 20 minutes flash-off time. Then allow the paint to stove in for approx. 60 minutes at an object temperature of approx. 80 °C. Drying/cross-linking of the applied paint film requires temperatures of + 5 °C or higher. The drying time decreases when the temperature is increased.

Spray data

Process	Nozzle	Pressure	Application viscosity ⁴⁾
Air spraying	1.3 to 1.7 mm	4 to 5 bar	20 to 30 sec.
Air-Mix spraying	0.23 to 0.33 mm	120 to 150 bar (material) 1 to 3 bar (air)	40 to 50 sec.

⁴⁾ Measured in DIN 4 mm flow cup (in mixture).

Packaging

30 kg

Shelf life

	24 months after receipt. 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 surface drying and drying out. Dried paint residues and surface-dried skin are insoluble in paint and can only be removed by sieving.
Minimum shelf life	refer to label

Remark

This Technical Data Sheet is based on intense development work and many years of practical experience. The contents do not constitute any contractual relationship. The user/buyer is not released from his/her obligation to test our products for suitability for the intended application. In addition, our General Terms and Conditions shall apply.

As soon as a new edition of this Technical Data Sheet is issued, the previous specifications become invalid.

If you need the current version, please contact your Brillux consultant, Version 12.

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