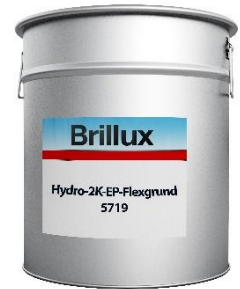


Technical Data Sheet

Hydro 2C EP Flexprimer 5719



Quick-drying two-component epoxy primer based on water for the highest corrosion protection demands in metal construction



Field of application

In all areas of metal coating that require the highest standards of corrosion protection for excellent mechanical parameters. Most suitable for machines, motors, drives, commercial vehicles, casings, radiators, construction and agriculture machinery.

Properties

- Outstanding corrosion protection
- Good filling power
- Good resistance to chemicals and solvents
- High mechanical resistance
- Quick drying
- Low VOC content
- Recoatable with hydro paints and conventional two-component paints

Approvals / permits

ISEGA	Review and approval of materials intended to come into contact with food, single-layer and in build-up with Hydro 2C PUR Paint 5860/5861, ISEGA-Forschungs- und Untersuchungs-Gesellschaft mbH, Aschaffenburg, test number 57056 U 22
Deutsche Bahn	Coating system in accordance with TL 918300, appendix B, sheet 2 of Deutsche Bahn

Material description

Basis	Watery epoxy resin
Color shades	Light gray, light ivory Light gray is available at short notice via the quick-delivery service.
Gloss grade	Matt

Material description

Density	1.52–1.70 g/cm ³ ¹⁾ (in accordance with DIN EN ISO 2811)
Theoretical yield	290–340 m ² /kg ^{1) 2)} (with 1 µm dry layer)
VOC content	54–64 g/l ²⁾
Solids content	66–72 wt % ¹⁾
Delivery viscosity at 20°C	600–750 mPas
pH value	6.0–7.5
Stability	150–200 µm (wet film)
Cyclical corrosion protection test	4 cycles (4 weeks) in accordance with DIN EN ISO 11997-1
Cupping index	≥ 4 mm (in accordance with DIN EN ISO 1520)
Labeling	See current safety data sheet.

¹⁾ Dependent on the color shade

²⁾ In mixture

Coating recommendation

Substrates ⁴⁾	Prime coat	Intermediate coat	Top coat ⁵⁾
Steel Preferably sand-blasted (degree of cleanliness min. SA 2 ½ in accordance with DIN EN ISO 12944, part 4), iron or zinc-phosphated	Hydro 2C EP Flexprimer 5719 40–80 µm (80µm complies with TL 918300, sheet 2 of DB)	If necessary, (layer thickness requirement), a second coat may be applied with the aforementioned primer.	Hydro 2C EP Flex Paint 5728 140 µm (complies with TL 918300, sheet 42 of DB)
			Hydro 2C PUR Paint 5860, 5861, 5862, 5863 40–60 µm
Aluminum Preferably blasted (roughness Rz 5–8µm in accordance with DIN EN ISO 4287)			2C PUR High Solid Paint 5730, 5731, 5732, 5733, 5736, 5737 40–80 µm
			2C PUR Acrylic Paint 5740, 5741, 5742, 5743, 5744, 5746, 5747, 5748, 5749 40–80 µm

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

⁵⁾ The overcoating must be applied within 48 hours to allow sufficient intercoat adhesion. Sanding is required once this time has passed.

Hardener

	EP Hardener 5777.-.0100 (standard hardening) Basis (hardener): Modified polyamine
Storage time for hardener	6 months after receipt of goods. Store in a sealed container in a dry place and at room temperature (max. 25°C). Protect from heat sources and direct sunlight.
Minimum shelf life	Refer to label

Use

	Stir the material until homogeneous before application.
Mixing ratio	9 : 1 wt% (6 : 1 vol%)
Mixing	<p>Base paint and hardener are supplied separately as a two-component system, and these are mixed homogeneously in the specified mixing ratio shortly before application.</p> <p>For manual application, ensure that base paint and hardener are mixed homogeneously in the specified mixing ratio allowing sufficient shearing power (fast mixer) and that the material is subsequently set to application consistency. It is advisable to let the material sit for 15 minutes before application for outgassing.</p> <p>Work equipment is to be cleaned with water after use. Cleaning with solvents can cause coagulation. Dried paint can be removed with solvents.</p>
Compatibility	Can only be combined with the hardeners, thinners and top coats specified in this technical data sheet.
Application temperature	>15°C (object temperature)
Thinning	Demi Water 5110 Distribute homogeneously while stirring.
Humidity	< 80% relative humidity
Pot life	Max. 3 hours (at 20°C)

Application method

Application method	Air mix spraying, airless spraying, air spraying
---------------------------	--

Drying

Air drying (at + 20°C, 65% relative humidity)	Dust dry after approx. 60 minutes, non-sticky after 2 hours, cured and recoatable after approx. 5 hours. Fully cured after 8–10 days.
Oven drying	Maintain the flash-off time for 30 minutes. Then force-dry the paint for approximately 30–60 minutes at a maximum object temperature of 60°C.

Spray data

Process	Nozzle	Pressure	Application consistency ⁶⁾
Airless / air-mix spraying	0.23–0.33 mm	80–120 bar (material) 1–4 bar (air)	40–80 sec.
Air spraying	1.2–1.7 mm	4–5 bar	20–30 sec.

⁶⁾ measured in a DIN 4 mm flow cup (in a mixture)

Container sizes

9 kg, 27 kg

Additional container sizes available on request.

Storage time

6 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

Remark

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 6 as required.

Brillux GmbH & Co. KG Industrial Coatings
Otto-Hahn-Straße 14
59423 Unna, Germany
Phone +49 2303 8805-0
Fax +49 2303 8805-119
info@brillux-industrielack.de
www.brillux-industrielack.de

