

Hydro 2C Epoxy Paint

5720 gloss

5721 silk gloss

5722 silk matt

Water-based single coat corrosion protection coating with an epoxy resin base in three gloss grades

Basis

Water based epoxy resin

Colors

All common color systems

Gloss grade

5720 gloss,
> 70 GU/60°
5721 silk gloss,
40 to 60 GU/60°
5722 silk matt,
20 to 39 GU/60°
(in accordance with
DIN EN ISO 2813)

Properties

- excellent corrosion protection
- very good chemical resistance
- excellent adhesion even on difficult surfaces
- very good solvent resistance
- abrasion-resistant with a high mechanical resistance
- re-coatable with Hydro and solvent-containing 2C and 1C Paints
- not resistant against ultraviolet light

Field of application

Highly recommended for automotive accessories like steering systems, shock absorbers and chassis. Also suitable for industrial machines, small iron work, furniture (interior), motors, drives, racks, Switching panels (interior)
Not suitable for UV-resistant coatings.

Technical data

Density

1.30 to 1.50 g/cm³ ¹⁾
(in accordance with
DIN EN ISO 2811)

Theoretical coverage

approx. 350 m²/kg ¹⁾²⁾
(at 1 µm dry layer thickness)

VOC content

< 250 g/l ¹⁾²⁾

Solids content

50 to 65 weight % ¹⁾

pH-value

6.5 to 7.5

Delivery viscosity at 20°C

60 to 85 sec./DIN 4 mm

Stability

approx. 150 µm (wet film)

Labelling

See current safety data sheet.

¹⁾ depending on color

²⁾ in mixture

Coating recommendation

Substrates ¹⁾	Prime coat	Intermediate coat	Top coat ^{2) 3)}
Steel preferably sand-blasted (degree of purity at least SA 2 ½ according to DIN EN ISO 12944, Part 4), iron or zinc-phosphated.	n/a	n/a	Hydro 2C Epoxy Paint 5720, 5721, 5722 40 to 50 µm
Cast iron			
Galvanized steel			
Aluminum			
Eloxal			

¹⁾ Generally, the substrate shall be free from grease, oil, separating and drawing agents as well as corrosion products and other impurities.

²⁾ Single coat application on an adequate pretreated surface.

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 5777.-.0100

Basis (hardener)
Modified polyamine

Storage (hardener)
The shelf life in closed containers is 3 months. Stock at room temperature. Protect against heat and direct sunlight.

Process

Material has to be stirred until homogeneous before application.

Mixing ratio

5.7 : 1 weight %,
4.5 : 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.

In case of manual application ensure that the paint and the hardener are stirred thoroughly under agitation before thinning to application viscosity. Degassing for 15 minutes is recommended before use.

Working equipment is preferably cleaned by water. Conventional solvent based thinner may lead to coagulation.

Thinning

Demi Water 5110.
Disperse homogeneously by stirring.

Pot life

Max. 1.5 h (at 20 °C)

Application temperature
> 15 °C

Air humidity

< 80 % r. h.

Compatibility

Compatibility is given only in combination with the hardeners, thinners and primers mentioned in this Technical Data Sheet.

Application

Air spraying, e-static spraying (high speed rotation atomising bells and discs), limited air-mix spraying

Drying

Air drying

(at + 20 °C, 65% r. h.)

Dust-dry after approx. 1 hour, non-sticky after 2 to 3 hours, dry and ready for re-working after approx. 24 hours. Fully cured after 8 to 10 days.

Oven-drying

Keep the flash-off time for 30 minutes. Afterwards stoving the paint for approx. 60 minutes at an object temperature of approx. 60 °C.

Spray data

Process	Nozzle	Pressure	Application viscosity ¹⁾
Air spraying	1.2 to 1.7 mm	4 to 5 bar	25 to 40 sec.
Air-mix spraying	0.23 to 0.28 mm	120 to 150 bar (material)	40 to 60 sec.

Process	Speed	High voltage	Application viscosity ¹⁾
Electrostatic high speed rotation atomising bells and discs	25 to 30 per mil rotation/minutes	70 to 80 kV	20 to 30 sec.

¹⁾ measured in DIN 4 mm flow cup (in mixture).

Packaging

25 kg.
Further container sizes upon request.

Storage

6 months after receipt.
Store in original closed container, dry and at room temperature (maximum 25 °C).
Protect against heat and direct sunlight.
Keep container closed at all times. Protect contents for surface drying/desiccation. Dried paint residues and skin are not soluble and can only be removed by sieving.

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 7

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