

Technical Data Sheet

2C Epoxy thick film paint 5767

epoxy resin-based two-component thick film paint with
decontaminable approval for RAL 7030 HR and RAL 6034 HR



Field of application

High build one coat paint highly recommended for instruments engineering, agricultural and construction machines, machines in general, engines/drives, commercial vehicles, shelf construction and steel containers etc.

Properties

- very good chemical resistance
- good decontaminability
- excellent corrosion protection
- excellent adhesion even on difficult surfaces
- can also be used on concrete, plaster and many plastics (check in advance)
- high degree of stability with good flow
- very good solvent resistance
- high mechanical resistance
- one coat normally enough
- in case of outdoor use chalking effects might occur
- can be coated with 1C and 2C paints
- once fully cured (cross-linked), the coating film is physiologically safe

Approvals/permits

- | | |
|------------|---|
| BAM | BAM-certificate No. 1.4 (0337) for RAL 7030 HR about decontamination of surfaces according to DIN 25415 Part 1. |
| iLF | iLF certificate Institut für Lacke und Farben Magdeburg GmbH (no. 150032) for RAL 6034 HR about decontamination of surfaces according to DIN 25415. |

Technical data

- | | |
|------------------------|---|
| Basis | non modified, cold-hardening epoxy resin |
| Colors | All common color systems |
| Degree of gloss | Silk matt, 25–50 GU/85° (in accordance with DIN EN ISO 2813) |
| Density | 1.50 to 1.65 g/cm ³ (in accordance with DIN EN ISO 2811) |

Technical data

Theoretical coverage	approx. 360 m ² /kg ¹⁾ (with 1 µm dry film thickness)
Solids content	approx. 69 to 75 weight-%
Delivery viscosity at 20 °C	200 to 300 mPas 65 to 75 sec./DIN 6 mm (thixotrope)
Stability	approx. 350 µm (wet film)
Flash point	> 23 °C
Labeling	See current safety data sheet.

¹⁾ in mixture

Coating recommendation

Substrates ²⁾	Prime coat	Intermediate coat	Top coat ³⁾⁴⁾
Steel preferably sand-blasted (degree of purity at least SA 2 ½ according to DIN EN ISO 12944, Part 4), iron or zinc-phosphated. Cast iron Galvanized steel Aluminium Eloxal Non-ferrous metals Concrete Plaster many Plastics	2C Epoxy Thick Film Paint 5767 60 to 90 µm	n/a	2C Epoxy Thick Film Paint 5767 60 to 90 µm

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

³⁾ Or one coated on an adequate pre-treated surface.

⁴⁾ 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

Epoxy Hardener 5797.-.0200 (standard curing)

Basis Modified epoxiamin-addukt

Mixing ratio 6 : 1 weight-% (4 : 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.

9 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

Process

Material has to be stirred until homogenous before application.

Thinner EP Thinner 5106
Disperse homogeneously by stirring.

Pot life 6 to 8 h (at 20 °C)

Application temperature > 10 °C (object temperature 3 °C above dew point)

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, air-mix spraying, airless spraying, e-static spraying, limited roller/brush application

Drying

Air-drying (at + 20 °C, 65 % r. h.) Dust-dry after approx. 1 hour, non-sticky after 3 to 4 hours, ready for re-working after approx. 6 hours, dry after 24 hours. Fully cured after 8 to 10 days.

Oven drying Keep the flash-off time for 20 minutes. Afterwards stoving the paint 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 ⁵⁾
Airless spraying	0.23 to 0.33 mm	120 to 180 bar (material)	40 to 50 sec.
Air spraying	1.2 to 1.5 mm	4 to 5 bar (air)	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.

⁵⁾ 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 10.

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