

2C Epoxy Mica Iron Paint 5766

Two component epoxy resin paint used as a well-filling intermediate coating in build up with 2C Epoxy Zinc Dust Paint 5707 for heavy corrosion applications

Basis

Non modified, cold-hardening epoxy resin

Colors

Gray

Gloss grade

Matt

Properties

- excellent barrier effect corrosion protection
- very good chemical and solvent resistance
- excellent adhesion on steel- and gray cast iron surface
- high degree of stability with good flow
- excellent solvent resistance
- high mechanical resistance
- can be coated with 1C and 2C paints
- after exterior application chalking effects will occur
- once fully cured, the paint film is physiologically safe

Field of application

As a well-filling intermediate coating for heavy corrosion applications (see coating recommendation).

Perfectly suitable for e.g. structural elements/structural sections (steel), utility vehicles, silos, steel tanks, steel cylinders, door and fence systems.

Technical data

Density

1.75 to 1.85 g/cm³
(in accordance with DIN EN ISO 2811)

Theoretical coverage

approx. 360 m²/kg ¹⁾
(with 1 µm dry film thickness)

Solids content

77 to 79 weight %

Delivery viscosity at 20°C

thixotropic

Stability

approx. 200 µm (wet film)

Flash point

> 23 °C

Labelling

See current safety data sheet

1) in mixture

Coating recommendation

(Classification in corrosivity categories in accordance with DIN EN ISO 12944)

Substrates ¹⁾	Prime coat	Intermediate coat ²⁾	Top coat	Total coating thickness	Corrosivity category (protection time)
Steel sandblasted (degree of purity at least SA 2 ½ in accordance with DIN EN ISO 12944, Part 4)	2C EP Zinc Dust Paint 5707 80 µm	2C EP Mica Iron Paint 5766 80 µm	2C PUR Acrylic Paint 5740, 5741 80 µm	240 µm	C5-I (long)
			2C Epoxy Thick Film Paint 5767 80 µm		
		2C EP Mica Iron Paint 5766 160 µm (2 x 80 µm)	2C PUR Acrylic Paint 5740, 5741 80 µm	320 µm	C5-M (long)
			2C Epoxy Thick Film Paint 5767 80 µm		

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

specified mixing ratio just before application.

spraying, limited roller/brush application

Basis (hardener)

Polyaminoamide (thixotropic)

Thinning

Epoxy Thinner 5106.
Disperse homogeneously by stirring.

Drying

Air drying

(at + 20 °C, 65% r. h.)
Dust-dry after approx. 60 minutes, 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.

Storage (hardener)

The shelf life in original closed containers is 3 months. Stock dry and at room temperature. Protect against heat and direct sun impact.

Pot life

6 to 8 h (at 20 °C)

Application temperature

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

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.

Process

Material has to be stirred until homogeneous before application.

Air humidity

< 80 % r. h.

Compatibility

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

Drying / cross-linking of the applied paint film requires temperatures of +5 °C or higher. The drying time decreases when the temperature is increased.

Mixing ratio

6 : 1 weight% (3.1 : 1 vol.%)

Mixing

As 2C system, the actual paint and the hardener are supplied separately and mixed homogeneously in the

Application

Air spraying, air-mix spraying, airless spraying, e-static

Spray data

Process	Nozzle	Pressure	Application viscosity ¹⁾
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	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.

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

Packaging

30 kg

Storage

1 year after receipt.

Store in original closed container, dry and at room temperature. Protect against heat and direct sunlight.

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 5

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