Technical Data Sheet

2C Epoxy Zinc Dust Paint 5707

High-quality, zinc-containing 2C primer for heavy corrosion protection on blasted steel substrates

Field of application

For all areas, with the highest demands on corrosion protection Perfectly suitable for e.g.: technical appliances, structural elements/structural sections (steel), silos, steel tanks, steel cylinders, door and fence systems.

Properties

- excellent corrosion protection
- excellent adhesion on SA 2 1/2 blasted steel substrates
- can only be used on bare metallic substrates
- high degree of stability with good flow
- very good solvent resistance
- high mechanical resistance
- can be coated with Brillux 2C PUR and 2C Epoxy Paints

Technical data

Basis	Non modified, cold setting epoxy resin
Colors	Gray
Degree of gloss	Matt
Density	2.68 to 2.78 g/cm³ (in accordance with DIN EN ISO 2811)
Theoretical coverage	220 to 240 m²/kg (with 1 µm dry film thickness)[1)]
Solids content	80 to 85 weight-%
Delivery viscosity at 20 °C	200 to 250 mPas (thixotropic)
Stability	approx. 300 µm (wet film)
Flash point	> 23 °C
Labeling	See current safety data sheet.

[1)] in mixture

Coating suggestion based on DIN EN ISO 12944

(tested on low-alloy steel, surface preparation grade: SA 2.5; surface roughness: medium to high (25 to 60 µm))

Corrosivity category	C3			C4			C5		
	low	med.	high	low	med.	high	low	med.	high
Protection time in years	**2–5**	**5–15**	**> 15**	**2–5**	**5–15**	**> 15**	**2–5**	**5–15**	**> 15**
Constant climate test (h)	**48**	**120**	**240**	**120**	**240**	**480**	**240**	**480**	**720**
Salt spray test (h)	**120**	**240**	**480**	**240**	**480**	**720**	**480**	**720**	**1440**
2C Epoxy Zinc Dust Paint 5707 (80 µm)[3]+ 2C Epoxy Primer 5706 (80 µm)[3] + 2C PUR High Solids Paint 5730–5733 (80 µm)[4]	C3 L	C3 M	C3 H	C4 L	C4 M	C4 H	C5-I/ L	C5-I M	C5-I H
2C Epoxy Zinc Dust Paint 5707 (80 µm)[3] 2C Epoxy Mica Iron Paint 5766 (80 µm)[3] + 2C PUR High Solids Paint 5730–5733 (80 µm)[4]	C3 L	C3 M	C3 H	C4 L	C4 M	C4 H	C5-I L	C5-I M	C5-I H
2C Epoxy Zinc Dust Paint 5707 (80 µm)[3] + 2C Epoxy Mica Iron Paint 5766 (80 µm) [3] + 2C Epoxy Thick Film Paint 5767 (80 µm)	C3 L	C3 M	C3 H	C4 L	C4 M	C4 H	C5-I L	C5-I M	C5-I H
2C Epoxy Zinc Dust Paint 5707 (80 µm)[3] + 2C Epoxy Primer 5706 (80 µm)[3] + 2C Epoxy Primer 5706 (80 µm)[3] + 2C PUR High Solids Paint 5730–5733 (80 µm)[4]	C3 L	C3 M	C3 H	C4 L	C4 M	C4 H	C5-I/M L	C5-I/M M	C5-I/M H
2C Epoxy Zinc Dust Paint 5707 (80 µm)[3] + 2C Epoxy Mica Iron Paint 5766 (80 µm)[3] + 2C Epoxy Mica Iron Paint 5766 (80 µm)[3] + 2C PUR High Solids Paint 5730–5733 (80 µm)[4])	C3 L	C3 M	C3 H	C4 L	C4 M	C4 H	C5-I/M L	C5-I/M M	C5-I/M H

[2] Generally, the substrate must be free from grease, oil, separating and drawing agents

[3] The second coating should be done within 72 hours to guarantee a sufficient intermediate adhesion. If the second coating follows after more than 72 hours, the surface should be sanded beforehand.

[4] Alternatively, 2C PUR High Solid Paints 5730 to 5733 can be used instead of 2C PUR AC Paints 5740 to 5743.

Hardener

EP Hardener 5773.-.0100

Basis Polyaminoamid

The shelf life in closed containers is 3 months. Stock dry and at room temperature. Protect against heat and direct sun impact. 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 12 : 1 weight-% (4,3 : 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
6 to 8 h (at 20 °C)

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

Humidity
< 70 % r. h.

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

Application

Air spraying, airless spraying, air-mix spraying. Brush application and rolling may be possible (Please check in advance).

Drying

Air-drying (at + 20 °C, 65 % r. h.)
Dust dry after approx. 40 minutes, non-sticky after 2 to 3 hours ready for re-working after about 24 hours,. Fully cured after 8 to 10 days.

Oven drying
Flash-off time for 30 minutes. Oven drying for approx. 60 minutes at an object temperature of max. 60 °C. Drying/crosslinking of the applied paint film requires temperatures of + 5 °C or higher. The drying time decreases with increasing temperature.

spray data

Process	Nozzle	Pressure	Application viscosity[6)]
Airless spraying	0.23 to 0.33 mm	120 to 180 bar (material)	40 to 50 sec.
Air-mix spraying	0.28 to 0.38 mm	120 to 150 bar (material) 1 to 3 bar (air)	40 to 50 sec.
Air spraying	1.5 to 1.7 mm	4 to 5 bar (air)	20 to 30 sec.

[6)] Measured in DIN 4 mm flow cup.

Packaging

18,0 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 8.

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