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4 pages

August 2012 Revision of July 2010

Description two component epoxy sealer pigmented with aluminium

PRINCIPAL CHARACTERISTICS – epoxy sealer for metal sprayed steel

 cures at temperatures down to +5°C registered as Highway Agency item 159

approved Network Rail RT 98 item 7.1.1

COLOURS AND GLOSS grey

BASIC DATA AT 20 °C $(1 \text{ g/cm}^3 = 8.35 \text{ lb/US gal}; 1 \text{ m}^2/\text{l} = 40.7 \text{ ft}^2/\text{US gal})$

(data for mixed product)

Mass density 1.0 g/cm³ 45% ± 2% Volume solids

VOC (UK PG 6/23(92) appendix 3) max. 549 g/l (approx. 4.6 lb/gal)

> (UK PG 6/23(92) Appendix 3) 25 µm depending on system

Recommended dry film thickness

Theoretical spreading rate

18 m²/l

Touch dry after 45 minutes * at 20 °C

Overcoating interval min. 8 hours *

max. 4 days *

Full cure after 5 days * at 20 °C

(data for components)

Shelf life (cool and dry place) at least 12 months

* see additional data

RECOMMENDED

SUBSTRATE CONDITIONS AND TEMPERATURES

thermally sprayed steel and dry and free from any contamination

- during application and curing a substrate temperature down to 5°C is acceptable provided substrate is dry and free from any contamination

- substrate temperature must be at least 3°C above dew point

maximum relative humidity during application and curing is 85%

mixing ratio by volume: base to hardener 80: 20

INSTRUCTIONS FOR USE the temperature of the mixed base and hardener should preferably be

above 15°C, otherwise extra solvent may be required to obtain application

viscosity

8 hours at 20 °C Pot life

*see additional data

Induction time none

AIR SPRAY

Nozzle orifice 1.5 - 3 mm

Nozzle pressure 0.3 - 0.4 MPa (= approx. 3 - 4 bar; 44 - 58 p.s.i.)





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AIRLESS SPRAY

Nozzle orifice Nozzle pressure approx. 0.43 - 0.58 mm (= 0.017 - 0.023 in) 15 MPa (= approx. 150 bar; 2176 p.s.i.)

CLEANING SOLVENT

- Thinner 90-53

Film thickness and spreading rate

theoritical spreading rate m2/l	18.0
dft in µm	25

Overcoating table for Sigma EP 159 Sealer

substrate temperature	10°C	20°C	30°C
minimum interval	8 hours	8 hours	6 hours
maximum interval	4 days	4 days	4 days

Curing

Curing table for Sigma EP 159 Sealer for dft of 25 μm

substrate temperature	touch dry	full cure	dry to handle
10°C	90 min.	7 days	4 hours
20°C	45 min.	5 days	3 hours
30°C	25 min.	3 days	1 hour

 adequate ventilation must be maintained during application and curing (please refer to sheets 1433 and 1434)

Pot life (at application viscosity)

10 °C	10 hours
20 °C	8 hours
30 °C	4 hours

Worldwide availability

Whilst it is always the aim of Sigma Coatings to supply the same product on a worldwide basis, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances.

Under these circumstances an alternative product data sheet is used.







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REFERENCES	Explanation to product data sheets see information Safety indications see information see information sees safety in confined spaces and health safety	
	Explosion hazard - toxic hazard Safe working in confined spaces	see information sheet 1431 see information sheet 1433
	Directives for ventilation practice Cleaning of steel and removal of rust	see information sheet 1434 see information sheet 1490

SAFETY PRECAUTIONS

- for paint and recommended thinners see safety sheets 1430, 1431 and relevant material safety data sheets
- this is a solvent borne paint and care should be taken to avoid inhalation of spray mist or vapour as well as contact between the wet paint and exposed skin or eyes







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