

# Technical Data

## Corro-Coat EP-F 8101



Jotun Protects Property

### Product Description

Corro-Coat EP-F 8101 is the inner layer in the J-trac fusion bond epoxy coating system, typically applied up to 300  $\mu\text{m}$  (12 mil) thickness.

The J-trac system consists of 200-300  $\mu\text{m}$  (8-12 mil) inner layer Corro-Coat EP-F Series 8100, 200-300  $\mu\text{m}$  (8-12 mil) middle layer Corro-Coat EP-F Series 8200, and 200-300  $\mu\text{m}$  (8-12 mil) outer layer Corro-Coat EP-F Series 8300.

Corro-Coat EP-F 8101 is normally applied in the temperature range of 230°C to 245°C (446°F to 473°F).

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### Operating Conditions

Corro-Coat EP-F 8101 is suitable for operating at continuous temperatures up to 100°C (212°F) in dry conditions and a maximum of 90°C (194°F) in wet conditions.

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### Storage Conditions

A shelf life of at least 12 months is obtained when stored at maximum 25°C (77°F) with relative humidity of 65%. Do not exceed 33°C (91°F) during transport.

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### Typical Powder Properties

Description	Norm	Result
Cure time	CSA-Z245.20-06 (12.1)	< 60 seconds
Gel time	CSA-Z245.20-06 (12.2)	11 - 17 seconds
Moisture content	CSA-Z245.20-06 (12.4B)	Below 0.50% (at time of manufacture)
Density	CSA-Z245.20-06 (12.6)	1350 g/l
Particle size	CSA-Z245.20-06 (12.5)	99.8% below 250 $\mu\text{m}$ (60 mesh)
Flexibility	CSA-Z245.20-06 (12.11) 3.0° PPD @ -30°C (-22°F)	Pass
Strained polarization*	CSA-Z245.20-06 (12.13) 28 days	Pass/no cracking
Hardness	Shore D ASTM D2240-97	Average of 85
Impact resistance	CSA-Z245.20-06 (12.12)	> 1.5 J
Dielectric strength	ASTM D149-95	> 550v per 25 $\mu\text{m}$ (1 mil)
Electrochemical impedance		Maximum 13.3 logZ ohms.cm <sup>2</sup>

Thermal characteristics	CSA-Z245.20-06 (12.7)	Tg 1 = 40-60°C (104-140°F) Tg 2 = 100-110°C (212-230°F) Delta H = 60 – 95 J/g Delta Tg = ± 5°C (9°F)
Adhesion*	CSA-Z245.20-06 (12.14) 75°C (167°F), 24 hours	Rating 1 or 2
Cathodic disbondment*	CSA-Z245.20-06 (12.8) 24 hours, 3.5v, 65°C (149°F) 28 days, 1.5v, 20°C (68°F) Modified CSA-Z245.20-06 (12.8) 28 days, 1.5v, 95°C (203°F)	2.0 mm radius average 3.5 mm radius average  3.0 mm radius average

*\*The performance of the coating is based on substrates which have not been chemically pretreated. Performance of all coating tests are based on Corro-Coat EP-F Series 8100 as a stand-alone system applied at 400 microns.*

### **Recommended repair system**

Jotun 120T640 two-component epoxy from Jotun Powder Coatings.

**Note:** The information on this Product Data Sheet is given to the best of the manufacturer’s knowledge, based on laboratory testing and practical experience. However, as the product is often used under conditions beyond the manufacturer’s control, only the quality of the product itself can be guaranteed. Jotun Powder Coatings reserves the right, without notice, to alter or change the content of this Product Data Sheet.

Jotun Powder Coatings. Revised May 2011.

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