Technical Data
Corro-Coat EP-F 7011

Product Description

Corro-Coat EP-F 7011 is an innovative low application temperature Fusion Bond Epoxy coating specifically designed for the coating of girth welds. It can be applied as a stand-alone or as a first layer in a multi-coat anti-corrosion girth weld coating system.

Applied film thickness over the girth weld will depend on the corresponding specification, but Corro-Coat EP-F 7011 can be applied at up to 500 µm (20 mil) thickness.

Corro-Coat EP-F 7011 is normally applied in the temperature range of 185°C to 210°C (365°F to 410°F).

Operating Conditions

Corro-Coat EP-F 7011 is suitable for operating at continuous temperatures up to 95°C (203°F) in dry conditions and a maximum of 75°C (167°F) in wet conditions.

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.

Typical Powder Properties

Description	Norm	Result
Cure time	CSA-Z245.20-06 (12.1) modified at 200°C (392°F)	< 30 seconds
Gel time	CSA-Z245.20-06 (12.2) modified at 180°C (356°F)	6-12 seconds
Moisture content	CSA-Z245.20-06 (12.4B)	Below 0.50% (at time of manufacture)
Density	CSA-Z245.20-06 (12.6)	1400 ± 50 g/l
Particle size	CSA-Z245.20-06 (12.5)	99.8% below 250 µm (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 µm (1 mil)
Electrochemical impedance		Maximum 13.3 logZ ohms.cm^2

Thermal characteristics	CSA-Z245.20-06 (12.7)	Tg 1 = 49-60°C (120°F-140°F) Tg 2 = 95-105°C (203°F-221°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)	3 – 4 mm radius average
	28 days, 1.5v, 20°C (68°F)	4 - 5 mm radius average

** The performance of the coating is based on substrates which have not been chemically pretreated.*

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.

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THIS PRODUCT DATA SHEET SUPERSEDES ALL PREVIOUSLY ISSUED VERSIONS.

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