

# Technical Data

## Corro-Coat EP-F 1004



Jotun Protects Property

### Product Description

Corro-Coat EP-F 1004 is a Fusion Bond Epoxy coating designed as a stand-alone anti corrosion coating for application to pipes and valves using a dipping process.

Corro-Coat EP-F 1004 is normally applied in the temperature range of 200°C to 250°C (392°F to 482°F).

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### Operating Conditions

Corro-Coat EP-F 1004 is suitable for operating at continuous temperatures up to 100°C (212°F) in dry conditions and a maximum of 80°C (176°F) in wet conditions. Corro-Coat EP-F 1004 conforms to British Standard BS 6920 for contact with potable water for hot (65°C, 149°F) and cold applications.

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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
Gel time	CSA-Z245.20-06 (12.2)	18 - 24 seconds
Moisture content	CSA-Z245.20-06 (12.4B)	Below 0.50% (at time of manufacture)
Density	CSA-Z245.20-06 (12.6)	1440 ± 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	ASTM D2583 (Barcol)	50 - 60
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 <sup>2</sup>
Thermal characteristics	CSA-Z245.20-06 (12.7)	Tg 1 = 50-66°C (122-151°F) Tg 2 = 98-110°C (208-230°F) Delta H = 40-60 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 28 days, 1.5v, 20°C	4.0 mm radius average 4.5 mm radius average

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

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### Recommended repair system

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

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**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.