

Product Data Sheet

Corro-Coat EP-F 5001

Product Description

Corro-Coat EP-F 5001 is a Fusion Bond Epoxy coating designed for valves and fittings protection. It is typically applied up to 500µm thickness. Corro-Coat EP-F 5001 is normally applied in the temperature range of 190°C to 240°C.

Operating Conditions

Corro-Coat EP-F 5001 conforms to the BS 6920 at 85°C for use in contact with drinking water and is listed by the WRc Group for use in contact with hot and cold potable drinking water.

Storage Conditions

A shelf life of at least 12 months is obtained when stored at maximum 25°C with relative humidity of 65%. Do not exceed 33°C.

Typical Powder Properties

Description	Norm	Result
Gel time	ISO 8130.6@ 200°C	25 - 65 seconds
Gel time	ISO 8130.6@ 240°C	5 - 35 seconds
Moisture content	CSA-Z245.20-02 (12.4B)	Below 0.50% (at time of manufacture)
Time to cure	@240°C	50 - 150 seconds
Time to cure	@220°C	150 - 250 seconds
Time to cure	@200°C	250 - 350 seconds
Gloss	@ 60 degrees	70 - 90
Hardness	Buchholz DIN 53153/ISO 2815	80
Abrasion resistance	ASTM D1944, 1000g load, 3000 cycles, CS17 wheels	Less than 0.200g weight loss
Water immersion	ASTM D-870, distilled water	3000 hours, no blistering or loss of adhesion

Chemical Resistance

Acetic acid 10%	Excellent	Nitric acid 10%	Limited resistance
Acetic acid concentrated	Little/no resistance	Nitric acid 3%	Limited resistance
Acetone	Limited resistance	Nitric acid 30%	Limited resistance
Ammonia 10%	Limited resistance	Petroleum	Excellent
Ammonia, concentrated	Limited resistance	Phenol	Little/no resistance
Butanol	Excellent	Phosphoric acid 10%	Excellent
Chemicals	Resistance	Phosphoric acid 4%	Excellent
Citric acid 10%	Limited resistance	Phosphoric acid 43%	Excellent
Crude oil	Excellent	Seawater	Excellent
Cyclohexanone	Little/no resistance	Sodium bi-chromate	Excellent
Distilled water	Excellent	Sodium carbonate 10%	Excellent
Edible oil	Excellent	Sodium chloride 2%	Excellent
Ethyl acetate	Limited resistance	Sodium chloride 20%	Excellent
Ethyl alcohol 96%	Excellent	Sodium hydroxide 30%	Excellent
Glycerol	Excellent	Sodium hydroxide 5%	Excellent
Hydrochloric acid 10%	Limited resistance	Sulphuric acid 20%	Excellent
Hydrogen peroxide	Limited resistance	Tap water	Excellent
Isopropyl alcohol	Excellent	Toluene	Excellent
Lactic acid 10%	Excellent	Turpentine	Excellent
Methyl-ethyl ketone	Limited resistance	Urea	Excellent
Na-hypochlorite, dilute	Limited resistance	Xylene	Excellent

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. April 2005.

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