

# Technical Data

## Corro-Coat EP-F 5002



Jotun Protects Property

### Product Description

Corro-Coat EP-F 5002 is a Fusion Bond Epoxy coating designed for valves and fittings protection. It is typically applied up to 500 µm thickness. Corro-Coat EP-F 5002 is normally applied in the temperature range of 190°C to 240°C (374°F to 464°F).

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### Operating Conditions

Corro-Coat EP-F 5002 is designed for non potable water and chemical systems. It is available in a range of colors enabling custom color valves coating.

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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            | ISO 8130.6 @ 200°C (392°F)                        | 25 - 65 seconds                               |
| Gel time            | ISO 8130.6 @ 240°C (464°F)                        | 5 - 35 seconds                                |
| Moisture content    | CSA-Z245.20-06 (12.4B)                            | Below 0.50% (at time of manufacture)          |
| Time to cure        | @ 240°C (464°F)                                   | 50 - 150 seconds                              |
| Time to cure        | @ 220°C (428°F)                                   | 150 - 250 seconds                             |
| Time to cure        | @ 200°C (392°F)                                   | 250 - 350 seconds                             |
| Gloss               | @ 60 degrees                                      | 70 - 90                                       |
| Hardness            | Buchholz DIN 53153/ISO 2815                       | 80  |
| Abrasion resistance | ASTM D1944, 1000 g load, 3000 cycles, CS17 wheels | Less than 0.200 g weight loss                 |
| Water Immersion     | ASTM D-870, distilled water                       | 3000 hours, no blistering or loss of adhesion |

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### Chemical Resistance

|                          |                      |
|--------------------------|----------------------|
| Acetic acid 10%          | Excellent            |
| Acetic acid concentrated | Little/no resistance |
| Acetone                  | Limited resistance   |
| Ammonia 10%              | Limited resistance   |

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

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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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