

Jotaguard VA 5002

PRODUCT DESCRIPTION

This product is a fusion-bonded epoxy designed as an anti-corrosion coating for valves and fittings. The product is suitable for non-potable water and chemical systems.

POWDER PROPERTIES

Property	Standard	Result
Cure time	240 °C (464 °F) 220 °C (428 °F) 200 °C (392 °F)	50-150 seconds 150-250 seconds 250-350 seconds
Gel time	ISO 8130-6 200 °C (392 °F) 240 °C (464 °F)	25-65 seconds 5-35 seconds
Moisture content	CSA-Z245.20-06 (12.4B)	Below 0.50 % (at time of manufacture)

Storage

When stored at a maximum 25 °C (77 °F), a shelf life of 12 months is obtained from the date of manufacture.

APPLICATION

Powder application

Application conditions depend on such factors as specification, plant capability and object characteristics.

Application conditions	Typical application temperature	Typical film thickness
Typical application	190-240 °C (374-464 °F)	500 µm (20 mils)

APPEARANCE

Gloss	EN ISO 2813 (60°)	70-90
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PERFORMANCE

Property	Standard	Result
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 D870, distilled water	3000 hours, no blistering or loss of adhesion
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
Ethanol (Ethyl alcohol) 96 %		Excellent
Glycerol		Excellent
Hydrochloric acid 10 %		Limited resistance
Hydrogen peroxide		Limited resistance
Isopropanol		Excellent
(Isopropyl alcohol)		
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

Disclaimer

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Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

Technical Data Sheet

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