

DURA-COAT LINER FAST 420F

DESCRIPTION AND RECOMMENDED USES

Dura-Coat® Liner Fast 420F is a ceramic-filled epoxy coating, 100% solids and solvent-free, designed for the protection of metal substrates exposed to highly aggressive industrial environments, particularly where severe abrasive wear is present. It provides excellent chemical resistance to a wide range of acidic and caustic solutions. The material can be easily applied by brush, roller, and airless spray at thicknesses of up to 40 mils per coat, without sagging. It can also be applied using a MixPac gun.

- Can be applied up to 40 mils without sagging
- Extreme adhesion to steel, bronze, aluminum, and concrete
- Suitable for corrosion and abrasion protection

FDA COMPLIANCE

This product complies with FDA regulations for direct food contact, specifically FDA 21 CFR 175.300 and FDA 21 CFR 175.105.

APPLICATION AREAS

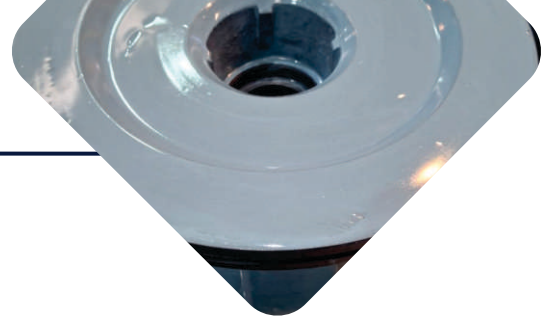
- Fans
- Heat exchangers
- Impellers
- Internal lining of piping, joints, and circumferential welds
- Pump casings
- Piping
- Screw conveyors
- Steel structures
- Tanks
- Valves
- Water tanks

PACKAGES

	SIZE	REORDER #
OPTIONS	1kg	420F-01
	2kg	420F-02
	7.5kg	420F-7.5
	15kg	420F-15
	1125ml	420F-Cart

TECHNICAL DATA

Maximum Temperature (dependent on service)	Wet Service	92°C	198°F
	Dry Service	148°C	299°F
Chemical Resistance	Water	Excellent	
	Alkalis	Excellent	
	Inorganic Acids	Good	
	Organic Acids	Good	
	Organic Solvents	Good	
Solids by Volume		100%	
Mixed Density		1.4	
Shore D Durometer Hardness	(ASTM D 2240)	84	
Pot Life		25 min / kg at 72°F	
Vertical SAG Resistance at 21°C (70°F) and 1mm (40mils)		No sag	
Coverage for 7.5kg Kit	115sf@120mils	10.7m ² @500 micron	
Mix Ratio	2:1 by weight	Base: Activator	
Color	Standard gray. Blue and red optional. For other colors, consult factory.		
Shelf Life (unopened containers)	3 years at 55-95°F (13-35°C)		



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SURFACE PREPARATION

Proper surface preparation is fundamental to the long-term performance of this product. The exact surface preparation requirements vary depending on application severity, expected service life, and the initial condition of the substrate. The minimum requirement is mechanical surface preparation to St2/St3. Ideal preparation will provide a surface completely free of all contaminants and with an angular roughness profile between 75–125 µm (3–5 mil). This is typically achieved through an initial cleaning and degreasing, followed by abrasive blasting to near-white metal cleanliness (Sa 2½), and then removal of any remaining abrasive residue from the surface to be coated.

MIXING

Thoroughly mix the Activator into the Base using the mixing paddle, scraping the sides and bottom of the container. Mix by weight, 2 parts Base to 1 part Activator. Mix well until the material is uniform and free of streaks. Never add solvents.

CURED TIME

	16°C (60°F)	25°C (77°F)	32°C (90°F)
TACK FREE	3 hours	1,5 hours	1 hour
LIGHT LOAD	6 hours	3 hours	2 hours
OVERCOAT END	8 hours	5 hours	3 hours
FULL LOAD	10 hours	6 hours	4 hours
FULL CHEMICAL	12 hours	8 hours	6 hours

APPLICATION

Brush: medium-to-stiff bristles, of sufficient quality so they do not shed or become embedded in the coating (epoxy-bonded bristles are best). Trim or tape the bristles so the length is less than 1".
 Roller: use a good-quality roller with a 1/8" nap.
 Airless Spray: 45:1 ratio or higher with a 529–535 tip, 5000 psi or higher. Temperature: 50°C (122°F).
 Plural-Component Airless: Graco XP70 or equivalent, heated to 43°C (109°F).
 Robotic Application: Robotic application of the coating on internal circumferential welds using a rotary atomizer.
 MixPac gun: 100 PSI pressure, between 50 and 55°C (122 to 131°F).

APPLICATION TEMPERATURE

Maintain between 55 and 95°F (17 to 35°C). Substrate: maintain between 45 and 105°F (7 to 40°C). The temperature difference between the substrate and the material must never exceed 10°F (5°C). The substrate must be at least 5°F (3°C) above the dew point. Do not apply if relative humidity exceeds 90%. If necessary, heat the metal prior to surface preparation using an electric heater or heat lamp. Never use gas, oil, or kerosene heaters, as they will leave an oily residue on the metal surface. For best results, keep all material in a heated area overnight (above 75°F) to facilitate mixing.

CLEAN UP

Tools must be immediately cleaned after usage by using industrial alkaline detergent.

SAFETY

Before using any products, review the appropriate Safety Data Sheet (SDS) or Safety Sheet for your area. Follow standard confined space entry and work procedures, if appropriate.

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