



DATA SHEET

Taurus TS1 is a 100% solids, solvent-free epoxy coating, specially formulated to deliver maximum protection for metallic surfaces in industrial applications. Its reliable performance makes it ideal for a wide range of operating conditions, ensuring durability and resistance in demanding environments. Taurus TS1 can be easily applied by brush, roller, or spray, reaching thicknesses of up to 25 mils without sagging.

- Can be applied up to 25 mils without sagging
- Compatible with multiple substrates: steel, bronze, aluminum, and concrete
- Provides effective protection against corrosion and weathering
- Also available with Antimicrobial additive

APPLICATION AREAS

- Impellers
- Pump bodies
- Tank linings
- Heat exchangers
- Tanks and silos
- Water boxes
- Valves
- Metal structures
- Ventilators and casings
- Screw conveyors
- Many others

COVERAGE

10 L kit covers 20 m² (215 sf)
Thickness: 500 microns (20 mils)

COLOR

Gray, green, red, orange, blue, yellow and white

PACKAGING

	Size	Gray	Green	Red	Orange	Blue	Yellow	White
REGULAR	5 L	TS1-GY5L	TS1-GR5L	TS1-R5L	TS1-O5L	TS1-B5L	TS1-Y5L	TS1-W5L
	10 L	TS1-GY10L	TS1-GR10L	TS1-R10L	TS1-O10L	TS1-B10L	TS1-Y10L	TS1-W10L
ANTI-MICROBIAL ADDITIVE	5 L	TS1A-GY5L	TS1A-GR5L	TS1A-R5L	TS1A-O5L	TS1A-B5L	TS1A-Y5L	TS1A-W5L
	10 L	TS1A-GY10L	TS1A-GR10L	TS1A-R10L	TS1A-O10L	TS1A-B10L	TS1A-Y10L	TS1A-W10L

TECHNICAL DATA

Maximum Temperature (depending on the service)	Wet Service Dry Service	50°C 60°C	122°F 140°F
Solids by Volume	100%		
Mixed Density	1.4		
Shore D Hardness	(ASTM D 2240)	85	
Pot Life	25 min / kg at 72°F		
SAG Vertical Resistance at 21°C (70°F) and 0.635 mm (25mils)	No sagging		
Mixing Ratio	2:1 by Weight	Base: Activator	
Shelf Life (unopened containers)	3 years at 55-95°F (13-35°C)		



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SURFACE PREPARATION

Proper surface preparation is essential for the long-term performance of this product. The exact requirements for surface preparation vary depending on the severity of the application, the expected service life, and the initial condition of the substrate. The minimum preparation is mechanical preparation St2/St3. The optimal preparation will provide a surface completely free of all contaminants and with a rough angular profile between 75–125 µm (3–5 mils). This is normally achieved through initial cleaning and degreasing, followed by abrasive blasting to near-white metal (Sa 2 ½), and then removal of any residual abrasive from the surface to be coated.

MIX

Mix the activator thoroughly into the base using the mixing stick, scraping the sides and bottom of the container. Mix by weight 2 parts Base to 1 part Activator. Mix thoroughly to produce a uniform, streak-free material. Never add solvents.

APPLICATION TEMPERATURE

Keep between 55 and 95°F (17 to 35°C). Substrate: Keep between 45 and 105°F (7 to 40°C). The temperature difference of the substrate and material should never exceed 10°F (5°C). The substrate shall be at least 5°F (3°C) above the dew point. Do not apply if the relative humidity exceeds 90%. If necessary, heat the metal before surface preparation using electric heater or heat lamp. Never use gas, oil or kerosene heaters, as they will leave a greasy residue on the metal surface. For best results, keep all material in the warm zone overnight (75°F+) for easy mixing.

CURED TIME

	16°C (60°F)	25°C (77°F)	32°C (90°F)
Tack Free	4 hours	2 hours	1 hour
Light Load	12 hours	6 hours	3 hours
Term Overlay	16 hours	10 hours	5 hours
Full Charge	24 hours	12 hours	6 hours
Complete Chemical	48 hours	24 hours	12 hours

FDA COMPLIANCE

This product complies with FDA regulations: FDA 21 CFR 175.300 and FDA 21 CFR 175.105.

APPLICATION

Brush: medium to stiff bristles of sufficient quality to prevent shedding or bristles getting stuck in the coating (epoxy-set bristles are best). Trim or tape them to less than 1" in length. Roller: use a good quality roller with a 1/8" nap.



CLEAN

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

SAFETY

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

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