



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 and yellow

PACKAGING

	Size	Gray	Green	Red	Orange	Blue	Yellow
REGULAR	5 L	TS1-GY5	TS1-GR5	TS1-R5	TS1-O5	TS1-B5	TS1-Y5
	10 L	TS1-GY10	TS1-GR10	TS1-R10	TS1-O10	TS1-B10	TS1-Y10
ANTI-MICROBIAL ADDITIVE	5 L	TS1-GY5	TS1-GR5	TS1-R5	TS1-O5	TS1-B5	TS1-Y5
	10 L	TS1-GY10	TS1-GR10	TS1-R10	TS1-O10	TS1-B10	TS1-Y10

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)		



Taurus Epoxy, Inc.
4450 NW 126th Ave, Suite 107
Coral Springs, FL 33065 USA
Tel: (561) 757 – 5620
E-mail: taurus@taurusepoxy.com
Website: www.taurusepoxy.com



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.

Manufacturer, Taurus Epoxy Inc., makes no warranty either expressed or implied including warranties of merchantability or fitness for a particular purpose for this product. Under no circumstances will the manufacturer be liable for incidental, consequential, or other damages, breach of warranty, strict liability, or any other theory arising out of use of this product. The information and/or recommendations contained herein are based on standard Product and are proprietary and furnished solely for the use of our customers. This information is provided in good faith and believed to be true and accurate as of the date/version of this document. As the manufacturer has no control over the use conditions or application process of the parties using this product, the manufacturer cannot accept responsibility for loss, injury or other damages resulting from the use of the Product or this or any other information provided by the manufacturer. Therefore, no guarantees of any kind, expressed or implied, are made by the manufacturer, Taurus Epoxy Inc., regarding this, or any, product manufactured by them or any contracted or licensed manufacturer. Taurus epoxy products do not provide structural integrity or improvement. They are only used to provide protection from corrosion, wear, abrasion and chemical attack on a given substrate and only to the extent provided for in the Data Sheets, Technical Data Sheets, Safety Data Sheets, and any other information as supplied in writing directly from manufacturers technical support.



Taurus Epoxy, Inc.
4450 NW 126th Ave, Suite 107
Coral Springs, FL 33065 USA
Tel: (561) 757 – 5620
E-mail: taurus@taurusepoxy.com
Website: www.taurusepoxy.com

