

TS1-CI

Surface Tolerant Epoxy Coating With Corrosion Inhibitor



DATA SHEET

Epoxy coating, 100% solids, with NANOTECHNOLOGY for iron oxide encapsulation and corrosion inhibitor, allowing metallic substrates with existing corrosion to be coated using only mechanical cleaning (St2). Excellent chemical resistance in the presence of caustics and acids. Easily applied with brush, roller, or airless spray.

- Can be applied up to 350 microns without sagging
- Extreme adhesion on steel, bronze, aluminum, concrete
- Protection against corrosion and chemical attack

APPLICATION AREAS

- Pipes
- Valves
- Water Boxes
- Centrifugal pumps
- Metal structures
- Reactors
- Tanks
- Heat exchangers
- Fans
- Flotation cells
- Impellers

COVERAGE

2 GL kit covers 21.4 m² (230 sf)
0.35 mm thickness (14 mils)

COLOR

Gray or white

PACKAGING

Size	Coverage	Gray	White
2 GL	21.4m ²	TS1CI-G2GL	TS1CI-W2GL

TECHNICAL DATA

Maximum Temperature (depending on the service)	Wet Service Dry Service	120°C 200°C	248°F 392°F
Solids by Volume	100%		
Mixed Density	1.25		
Shore D Hardness	(ASTM D 2240)	84	
Pot Life	40 min / kg at 72°F		
SAG Vertical Resistance at 21°C (70°F) and 0.350mm (14mils)	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 surface preparation requirements vary depending on the severity of the application, the expected service life, and the initial condition of the substrate. All sharp edges and welds must be ground to a 3 mm (120 mil) radius using an abrasive disc. Taurus TS1-CI is a "Surface Tolerant" coating with nanotechnology that allows for minimal preparation using mechanical cleaning (St2). This is typically achieved through initial cleaning and degreasing followed by mechanical preparation or water jetting.

MIX

Mix the activator well in the base with the mixing rod scraping the sides and the bottom of the container. Mix by weight 2 parts Base to 1 part of Activator. Mix thoroughly to produce a uniform and without stripes. Never put 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

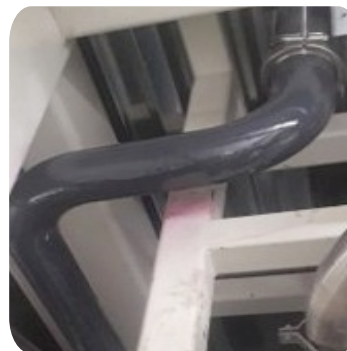
	16°C (60°F)	25°C (77°F)	32°C (90°F)
Tack Free	4 hours	2 hours	1 hour
Light Load	6 hours	4 hours	3 hours
Term Overlay	10 hours	8 hours	4 hours
Full Charge	14 hours	16 hours	8 hours
Complete Chemical	36 hours	24 hours	18 hours

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 sticking to the coating (epoxy-set bristle brushes are preferred).
Cutting in or masking: Use tape with <1" nap.
Roller: Use good quality 1/8" nap.



CLEAN

Tools should be thoroughly cleaned immediately after use with a strong alkaline detergent.

SAFETY

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.

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