

T280

Pipe Reinforcement Resin
up to 280°C (536°F)



DATA SHEET

Taurus T280 is a high-functionality Novolac epoxy resin, 100% solids and solvent-free, developed for structural reinforcement applications using composite materials. It is specifically designed for use with carbon fiber and fiberglass systems, providing reliable performance under demanding service conditions, including exposure to aggressive chemicals and elevated temperatures.

- Can be applied by brush or roller
- Compatible with steel, bronze, aluminum, and concrete
- Corrosion protection and structural reinforcement

APPLICATION AREAS

- Metal structures
- Pipe connections
- Pipelines
- Tank walls
- Vessels
- Many other

COLOR

Transparent amber

PACKAGING

Size	Reorder #	Size	Reorder #
1 kg	T280-01	50 kg	T280-50

TECHNICAL DATA

Maximum Temperature (depending on the service)	Wet Service Dry Service	230°C 280°C	450°F 536°F
Solids by Volume	100%		
Mixed Density	1.25		
Shore D Hardness	(ASTM D 2240)	85	
Pot Life	25 min / kg at 72°F		
Mixing Ratio	2.4:1 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 critical to the long-term performance of this product. The exact requirements for surface preparation vary with the severity of the application, the expected useful life and the initial conditions of the substrate. All sharp edges and welds shall be roughed to a radius of 3mm (120 thousand) with abrasive disc. The optimal preparation will provide a thoroughly cleaned surface of all contaminants and rough to an angular profile between 75-125 µm (3-5 mil). This is normally achieved by initial cleaning and degreasing and then abrasive blasting to near-white metal cleaning, or by mechanical preparation.

MIX

Mix the activator well in the base with the mixing rod scraping the sides and the bottom of the container. Mix by weight 2.6 parts Base to 1 part of Activator. Mix thoroughly to produce a uniform and without stripes. Never put solvents.

APPLICATION

Use a heavy plastic brush or putty knife to apply a minimum thickness of 6 mm. Work the material in the substrate profile to achieve maximum adhesive and remove any trapped air. Contour to correct the shape with putty knife material or plastic applicator. If mold is used or shape, be sure to coat its surface with an agent of release to prevent adhesion of the material.

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

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 work and entry procedures, if applicable.

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