

TX1-IRC

Rapid Curing Impact Resistant Ceramic Epoxy Wearing Compound



DATA SHEET

Fast-curing epoxy compound, 100% solids, ceramic-filled with a special reinforcement matrix containing aramid fibers for increased resistance to abrasion and high impact. Offers good chemical resistance in the presence of caustics and acids. Easily applied with a trowel, spatula, or by hand using latex gloves.

- Perfect for repairs and patches
- Extreme adhesion on steel, bronze, aluminum, concrete
- Protection against corrosion and abrasion

APPLICATION AREAS

- Chutes
- Hoppers
- Cyclones
- Wear plates
- Centrifugal pumps
- Screw conveyors
- Hydro pulpers
- Ash separators
- Impellers
- Carbon crushers
- Pipe elbows

COVERAGE

10 kg kit covers 0.6 m² (6.5 sf)
8 mm thickness (320 mils)

COLOR

Gray

PACKAGING

Size	Reorder #	Size	Reorder #
1 kg	TX1IRC-01	2 kg	TX1IRC-02
10 kg	TX1IRC-10	20 kg	TX1IRC-20

TECHNICAL DATA

Maximum Temperature (depending on the service)	Wet Service	70°C	158°F
	Dry Service	93°C	200°F
Solids by Volume	100%		
Viscosity	Paste		
Mixed Density	2.0		
Shore D Hardness	(ASTM D 2240)	85	
Pot Life	25 min / kg at 72°F		
SAG Vertical Resistance at 21°C (70°F) and 12.7 mm (500mils)	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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TAURUS EPOXY
COATINGS

TX1-IRC

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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. All sharp edges and welds shall be roughened to a 3mm (120 mil) radius using an abrasive disc. Optimal preparation will result in a thoroughly cleaned surface, free of all contaminants, and roughened to an angular profile between 75–125µm (3–5 mil). This is typically achieved through initial cleaning and degreasing, followed by abrasive blasting to near-white metal cleanliness, 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 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 3mm. 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 mod is used be sure to coat your surface with a 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	45 min	30 min	20 min
Light Load	1 hour	45 min	30 min
Term Overlay	1 hour	45 min	30 min
Full Charge	1,5 hours	1 hour	45 min
Complete Chemical	4 hours	3 hours	2 hours

CLEAN

Tools should be thoroughly cleaned immediately after use with a strong alkaline detergent. The material would have to be burned.

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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