

TX5-HT

High Temperature Rapid Curing Ceramic Epoxy Compound



DATA SHEET

Fast-curing, 100% solids Novolac epoxy compound, ceramic-filled and reinforced with aramid fiber matrix, offering resistance to abrasion and impact. Good chemical resistance in the presence of caustics and acids. Suitable for temperatures up to 280°C. Easily applied with a trowel, spatula, or by hand using latex gloves.

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

APPLICATION AREAS

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

COVERAGE

10kg kit covers 0.8 m² (8.6 sf)
Thickness: 6 mm (240 mils)

COLOR

Red and blue

PACKAGING

Size	Reorder #	Size	Reorder #	Size	Reorder #	Size	Reorder #
1 kg	TX5HT-01	2 kg	TX5HT-02	10 kg	TX5HT-10	20 kg	TX5HT-20

TECHNICAL DATA

Maximum Temperature (depending on the service)	Wet Service Dry Service	230°C 280°C	446°F 536°F
Solids by Volume	100%		
Viscosity	Paste		
Mixed Density	2.0		
Shore D Hardness	(ASTM D 2240)	84	
Pot Life	25 min / kg at 72°F		
SAG Vertical Resistance at 21°C (70°F) and 6mm (240mils)	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 surface preparation requirements vary depending on the severity of the application, 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. Optimal preparation will result in a thoroughly clean surface, free of all contaminants, and roughened to an angular profile between 75–125 µm (3–5 mils). This is typically achieved through initial cleaning and degreasing, followed by abrasive blasting to a near-white metal finish, or by mechanical preparation.

MIX

Thoroughly mix the activator into the base using a mixing stick, scraping the sides and bottom of the container. Mix at a ratio of 2 parts Base to 1 part Activator by weight. Blend thoroughly until a uniform, streak-free material is achieved. Never add solvents.

APPLICATION TEMPERATURE

Maintain between 55 and 95°F (17 to 35°C).
Substrate: Maintain between 45 and 105°F (7 to 40°C).
The temperature difference between the substrate and the material should never exceed 10°F (5°C). The substrate must be at least 5°F (3°C) above the dew point. Do not apply if relative humidity exceeds 90%. If necessary, preheat the metal before surface preparation using an electric heater or heat lamp. Never use gas, oil, or kerosene heaters, as they will leave an oily residue on the metal surface. For best results, keep all material in a warm area overnight (75°F or higher) to ease 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
Overcoat End	1 hour	45 min	30 min
Full Charge	1.5 hours	1 hour	45 min

FDA COMPLIANCE

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

APPLICATION

Use heavy plastic squeegee or putty knife to apply a 3mm minimum thickness. Work material into profile of substrate to achieve maximum adhesive and to remove any entrapped air. Contour to correct form with putty knife or plastic applicator. If mold or form is used be sure to coat its surface with a release agent to prevent adhesion of the material.



CLEAN

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

SAFETY

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

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