

T59

Rapid Curing Rebuild Ceramic Epoxy Putty



DATA SHEET

Fast-curing epoxy putty compound, 100% solids, filled with ceramic microspheres for metal reconstruction and abrasion protection. Excellent chemical resistance in the presence of caustics and acids. Easily applied with a trowel and spatula.

- It can be applied up to 12.7 mm without sagging.
- Extreme adhesion on steel, bronze, aluminum, and concrete.
- Protection against corrosion and abrasion.

APPLICATION AREAS

- Shafts
- Pump housings
- Containers
- Crushers
- Centrifugal pumps
- Heat exchangers
- Propellers
- Fans
- Impellers
- Metal structures
- Screw conveyors

COVERAGE

10 kg kit covers 5.6 m² (60 sq ft)
Thickness: 1 mm (40 mils)

COLOR

Gray or options of blue, green, and red

PACKAGING

Size	Reorder #	Size	Reorder #
1 kg	T59-01	2 kg	T59-02
10 kg	T59-10	18 kg	T59-18

TECHNICAL DATA

Maximum Temperature (depending on the service)	Wet Service Dry Service	90°C 160°C	194°F 320°F
Solids by Volume	100%		
Viscosity	Paste		
Mixed Density	1.8		
Shore D Hardness	(ASTM D 2240)	85	
Pot Life	25 min / kg at 72°F		
SAG Vertical Resistance at 21°C (70°F) and 12.7mm (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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SURFACE PREPARATION

Proper surface preparation is crucial for the long-term performance of this product. Exact surface preparation requirements vary based on the severity of the application, expected lifespan, and initial conditions of the substrate. All sharp edges and welds should be ground to a 3 mm (120 mil) radius with an abrasive disc. Optimal preparation will provide a thoroughly clean surface of all contaminants and a rough, angular profile between 75-125 µm (3-5 mil). This is typically achieved through initial cleaning and degreasing, followed by abrasive blasting to a White Metal Cleanliness (SSPC-SP10) or close to white metal, and then removal of abrasive blasting residues from the surface to be coated.

MIX

Thoroughly mix the activator into the base using a 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: 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 the relative humidity exceeds 90%. If necessary, heat the metal before surface preparation using an 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 a warm area overnight (75°F+) to facilitate mixing.

CURED TIME

	16°C (60°F)	25°C (77°F)	32°C (90°F)
Tack Free	45 mins.	30 mins.	20 mins.
Light Load	1 hour	45 mins.	30 mins.
Term Overlay	1 hour	45 mins.	30 mins.
Full Charge	1.5 hours	1 hour	45 mins.
Complete Chemical	4 hours	3 hours	2 hours

FDA COMPLIANCE

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

APPLICATION

Use a heavy plastic brush or putty knife to apply a minimum thickness of 3 mm. Work the material into the profile of the substrate to achieve maximum adhesion and remove any trapped air. Shape the contour with a putty knife or plastic applicator. If using a mold or form, ensure to coat its surface with a release agent to prevent material adhesion.



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 Sheet relevant to your area. Follow standard entry and confined space work procedures, if applicable.

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