

TS4-RC

Rapid Curing Ceramic Epoxy Coating For Strong Chemicals



DATA SHEET

Brushable fast-curing compound, 100% solids, Novolac epoxy filled with ceramic microspheres for abrasion protection. Excellent chemical resistance in the presence of caustics and concentrated acids. Easily applied by brush, roller, or airless spray.

- Applies up to 635 microns without sagging
- Extreme adhesion on steel, bronze, aluminum, concrete
- Protection against corrosion and abrasion

APPLICATION AREAS

- Chimneys
- Valves
- Pipes
- Centrifugal pumps
- Flotation cells
- Scrubbers
- Fans
- Metal structures
- Tanks
- Heat exchangers
- Others

COVERAGE

7.5 kg kit covers 10.7 m² (115 sf)
Thickness: 500 microns (20 mils)

COLOR

Red or optional gray

PACKAGING

Size	Red	Gray	Size	Red	Gray	Size	Red	Gray
1 kg	TS4RC-R01	TS4RC-GY01	2 kg	TS4RC-R02	TS4RC-GY02	1125 ml	TS4RC-RCART	TS4RC-GYCART
7.5 kg	TS4RC-R7.5	TS4RC-GY7.5	15 kg	TS4RC-R15	TS4RC-GY15			

TECHNICAL DATA

Maximum Temperature (depending on the service)	Wet Service	50°C	122°F
	Dry Service	60°C	140°F
Solids by Volume	100%		
Mixed Density	1.4		
Shore D Hardness	(ASTM D 2240)	85	
Pot Life	35 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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SURFACE PREPARATION

Proper surface preparation is essential for the long-term performance of this product. The exact requirements for surface preparation vary with 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 with an abrasive disc. Optimal preparation will provide a thoroughly clean surface, free of all contaminants, and roughened to an angular profile between 75–125 µm (3–5 mil). This is normally achieved by initial cleaning and degreasing, followed by abrasive blasting to a Near-White Metal finish (SSPC-SP10) or close to white metal, and then removing all abrasive residues from the surface to be coated.

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

Brush: medium to rigid bristles of sufficient quality than bristles do not come loose and stick to the coating (brushes of sows glued by epoxy are better).
Trim or put tape <1" nap.
Roller: use a good quality 1/8" nap.

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	3 hours	1.5 hours	1 hour
Light Load	6 hours	3 hours	2 hours
Term Overlay	8 hours	5 hours	3 hours
Full Charge	10 hours	6 hours	4 hours
Complete Chemical	12 hours	8 hours	6 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 entry and work procedures, if applicable.

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FDA COMPLIANCE

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



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