

TS2-LV

Low Viscosity Abrasion And Corrosion Protection Ceramic Epoxy Coating



DATA SHEET

Brushable coating with the lowest viscosity, 100% solids, filled with ceramic microspheres for abrasion protection. Excellent chemical resistance in the presence of caustics and acids. Easily applied with a brush, roller, or airless spray.

- Applies up to 500 microns without sagging
- Extreme adhesion on steel, bronze, aluminum, concrete
- Protection against corrosion and abrasion

PACKAGING

Size	Reorder #	Size	Reorder #
1 kg	TS2LV-01	2 kg	TS2LV-02
7.5 kg	TS2LV-7.5	15 kg	TS2LV-15
1125 ml	TS2LV-Cart		

TECHNICAL DATA

Maximum Temperature (depending on the service)	Wet Service	90°C	194°F
	Dry Service	150°C	320°F
Solids by Volume		100%	
Mixed Density		1.4	
Shore D Hardness	(ASTM D 2240)	85	
Pot Life		25 min / kg at 72°F	
SAG Vertical Resistance at 21°C (70°F) and 1 mm (40mils)		No sagging	
Mixing Ratio	2:1 by Weight	Base: Activator	
Shelf Life (unopened containers)		3 years at 55-95°F (13-35°C)	

APPLICATION AREAS

- Bins and silos
- Valves
- Water boxes
- Centrifugal pumps
- Tanks
- Internal coating of pipelines, joints and girth welds
- Ventilators
- Waterline cells
- Impellers
- Metal structures
- Screw conveyors
- Heat exchangers

COVERAGE

7.5 kg kit covers 10.7 m² (115 sf)
500 micron thickness (20 mils)

COLOR

Gray or blue. Green and red options



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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 must be ground to a 3mm (120 mil) radius using an abrasive disc. Optimal preparation will provide a surface thoroughly clean of all contaminants and roughened to an angular profile of 75-125µm (3-5 mils). This is typically achieved through initial cleaning and degreasing followed by abrasive blasting to a Near-White Metal (SSPC-SP10) or White Metal finish, and subsequent removal of abrasive residue 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 at a ratio of 2 parts Base to 1 part Activator. Mix thoroughly to produce a uniform, streak-free material. Never add solvents.

APPLICATION TEMPERATURE

Maintain a temperature 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, preheat 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 materials 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	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

FDA COMPLIANCE

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

APPLICATION

Brush: medium to stiff bristle of sufficient quality that bristles do not pull out and stick in coating (epoxy glued bristles are best). Trim or tape to <1" nap. Roller: use good quality 1/8" nap. Airless Spray: 45:1 or larger with TIP 529-535, pressure 5,000psi +. Temperature 50°C (122°F). Plural Component Airless: Gracco Xp70 or equivalent, heated to 43°C (109°F).



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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