



Technical Process Bulletin

EMER-TAN

RECOMMENDED USES

The flexibility of Emer-Tan application makes it suitable for small or large surfaces, inaccessible areas or whatever rust is present. As a surface pre-treatment for rusted structural steel, machinery, gates, railings, marine fittings, motor vehicle floors and all rusted surfaces where the complete removal of rust is not feasible or economical. An excellent pre-treatment for corroded reinforcement exposed during concrete spalling repair.

Steel surfaces treated with Emer-Tan can also be welded, coated, galvanized, or chromed.

For application in special conditions, consult the manufacturer for detailed information.

DESCRIPTION

Emer-Tan is a synergistic blend of tannin, phosphoric acid and selected surface active agents which produces a safe and extremely effective rust passivation costing to halt corrosion.

Emer-Tan Rust Converter has a three-fold action:

- 1) Displaces all moisture from the rusted surface,
- 2) Penetrates into all crevices, and
- 3) Converts the rusty layers into a stable Iron-Tannate-Phosphate complex.

SURFACE PREPARATION

All surfaces to be cleaned free of dirt, grease, oil or other contamination prior to the application of Emer-Tan. If necessary, remove all surface grease or oil with a detergent, and then rinse surface with cold, fresh water before applying Emer-Tan.

Steel surfaces to be hand or power tool cleaned to remove all loose scale, flaky rust or other contamination. On heavily corroded areas, needle gun or similar may be necessary to remove heavy rust build prior to hand-cleaning.

Pre-painted surfaces to be scraped and sanded to remove any loosely adhering coatings, and feathered back to a firmly adhering edge.

APPLICATION

Emer-Tan may be applied by brush, roller, spray or dipping. It can be applied to moist steel surfaces in high humidity conditions. In high temperatures, it is advisable to wet the surface and then apply Emer-Tan whilst still damp.

Apply a liberal coat of Emer-Tan to the rusted areas and allow 4-6 hours for the conversion of the rust to an Iron-Tannate to occur. Where possible, wet the treated surfaces again with water to aid the Emer-Tan penetration and conversion rate, leave until surface turns blue/black for the conversion to be fully complete in approximately 24 hours.

Prior to coating, and in any event, within 48 hours of conversion, before any surface contamination occurs, wipe off any loose powdery deposits with clean, dry cloths, then prime immediately with the selected Emer-Gard Primer.

Note: Emer-Tan contains acid. Store in plastic, rubber-lined, glass or stainless steel containers. Rubber gloves are recommended for extended use. Clean all equipment with water immediately after use.

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PROPERTIES AND APPLICATION DATA:

COLOUR:	DARK BROWN	COVERAGE:	15-20 (M ² /LTR)
	FLAT BLUE-BLACK FILM	APPLICATION:	BRUSH, ROLLER, SPRAY OR IMMERSION
VEHICLE:	BLEND OF TANNIN AND PHOSPHORIC ACID	DRYING TIMES (25°C,50%R.H.):	
		-DUST FREE	NOT APPLICABLE
		-RECOAT	4-6 HOURS
		-HARD	NOT APPLICABLE
MIXING RATIO:	SINGLE COMPONENT		
POT LIFE:	INDEFINITE	THINNERS:	NOT RECOMMENDED
SHELF LIFE:	12 MONTHS (if stored under proper conditions)	CLEAN UP:	WATER
VOLUME SOLIDS:	21%	FLAMMABILITY:	NON-FLAMMABLE
RECOMMENDED THICKNESS (PER COAT)		TRANSPORTATION:	CLASS 8 UN1760 PG II CORROSIVE LIQUID N.O.S.
-WET FILM	NOT APPLICABLE	PACKAGING:	20, 4 & 1 LITRES
-DRY FILM	NOT APPLICABLE		

DISCLAIMER:

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