



TITUS INDUSTRIAL GROUP INC

INFRASTRUCTURE SOLUTIONS MADE EASY



PRODUCT DATA

TAPECOAT TC7000

HIGH TEMPERATURE EPOXY

PRODUCT DESCRIPTION

TC 7000 HIGH TEMPERATURE EPOXY is a two-part, 100% solids, liquid epoxy system for service temperatures of up to 300°F (149°C).

AS A PRIMER

Applied at 6 to 10 mils, TC7000 Epoxy can be used as a primer for any of the ambient temperature Tapecoat Coating Products. TAPECOAT HTMB and 6025 High Temperature Coating Systems require the use of TC7000 Epoxy as the system primer when design criteria calls for operating temperatures to exceed 180°F (82°C).

AS A STAND ALONE COATING

TC7000 applied at a minimum total coating thickness of 25 mils can be considered a high temperature a stand-alone coating. TC Reinforcing Scrim, a polyethylene wrap, is applied to the initial wet layer of TC7000 and then immediately overcoated with an additional layer of epoxy. This makes the coating build easy to achieve. It also eliminates small air pockets, a common problem caused by the mixing procedure, and gives the coating added strength and impact resistance when used for directional boring or as an added safe guard against abrasive backfill.

TC 7000SP AVAILABLE IN SPRAY GRADE PINT CARTRIDGE

COMPOSITION

The TC7000 Epoxy Kit contains:

Epoxy Resin - Red in color in the large container.

Hardening Agent - Opaque in color in the small container.

TC7000 is 100% Solids Epoxy containing no volatile organic compounds (VOC).

SURFACE PREPARATION

Prior to coating application, the surface should be clean, dry, free of rust, dust, scale, sharp points and burrs. Oil and grease should be removed with a solvent prior to sandblasting. The solvent should not leave a film residue.

The substrate should have a 2 to 4 mil surface profile most easily achieved by sandblasting.

REFERENCE STANDARDS:

- o Steel Structures Painting Council (SSPC) SP-10 Near-White Blast Cleaning
- o National Association of Corrosion Engineers (NACE) NACE 2 - Near-White Blast Cleaning
- o Swedish Standards (Sa,St) Sa 2 1/2 Near-White Blast Cleaning

APPLICATION

Mix the Total Contents of the Hardener in to the larger container of Resin.

Mix thoroughly for about three minutes before applying. It is helpful to use a power drill or power mixer to mix larger quantities.

Do not exceed the Epoxy "Pot Life". When the Epoxy begins to pull as it is applied, the window for application has closed.

Use smaller quantity epoxy kits for smaller coating jobs.

(See application specifications for more detailed instructions.)

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TAPECOAT TC 7000 EPOXY STAND ALONE COATING SYSTEM

TECHNICAL DATA

Description	
Epoxy System	Two-component 100% Solids
Color	Red
Stand Alone Coating	Mil Thickness 25 mils
As Primer for Coating Overwrap	Mil Thickness 6 to 10 mils
Application Temperature	45 to 120 °F (7.2°C to 49°C)
Maximum Service Temperature	300°F (149°C)

Property	Result	Test Method
Test Samples Mil Thickness	25 mils	
Pot Life	15-20 min. at 70°F (21°C) 50% Relative Humidity (RH)	
Backfill	3 to 4 hours at 70°F (21°C)	
VOC	Zero	
Cathodic Disbondment 1	No Disbondment	ASTM G8 modified to 60 days
Cathodic Disbondment 2	.16 in ² (103 mm ²)	ASTM G42 Modified (1 volt, 147°F [64°C], 90 days)
Adhesion to Steel	Exceeds 2000 psi @ 22 mil With 3 mil profile	ASTM D4541 – Type II
Adhesion to FBE	Exceeds 2275 psi	ASTM D4541 – Type II
Dielectric Strength	10,000 volts @ 22 mils	
Viscosity @ 77°F (25°C)	Resin: 32,500 cps Hardener: 990 cps	
Flash Point	N. A. No Red Label Required	
Chemical Resistance	Very Good	ASTM G 20
Specific Gravity	1.68 for mixed product	
Impact Resistance	22.82 inch lb (26.3 kg cm)	ASTM G14
Shore D Hardness	85 - 90	ASTM 2240

CASE PACKAGING

Coating Material

TC 7000 SP SPRAY GRADE

AVAILABLE IN PINT CARTRIDGE

12 High Usage Pint Cartridges per Case.
Approximate Coverage @ 25 mils, 8 sq. ft.
per cartridge.

SKU#	Quantity	Kits Per Case	Case Weight
280HP	½ Pint	4	24
280PT	Pint	4	48
280Q	Quart	2	22
280HG	½ Gallon	2	42
280G	Gallon	2	70

Shipping Limitation: Ground or Sea Only.

MADE IN USA 

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