CASTEK® INC.
A TRANSPO INDUSTRIES COMPANY

Technical Data Sheet

Multi - Coat Epoxy System

T-526

Transpo T-526 is a two component, low modulus, flexible epoxy resin system used for sealing and restoring bridge decks and other pavements. It provides an impervious membrane to prevent the ingress of moisture, chlorides, salts, and other corrosion inducing substances. Transpo T-526 system is typically applied at the thickness of only 1/4" – 3/8" thereby eliminating the need to relocate joints, end dams, and drain structures or catch basins. It will add less than 3-4 pounds of deadweight load per square foot of deck area, an important consideration for older structures.

Application Procedure

Surface Preparation: Prior to surface preparation, all damaged or deteriorated concrete shall be removed, cut back to sound concrete, and repaired with appropriate materials and methods to provide for good adhesion of the overlay. It is strongly recommended that all surfaces that are to receive Transpo T-526 be thoroughly clean and free of all dirt, grease, rust and other contaminates that might interfere with the proper adhesion of the epoxy overlay. All surfaces, including those that are patched, must be thoroughly shot-blasted to ICRI concrete surface profile (CSP-5). ACI 503R (App. A) tensile adhesion tests shall be performed to evaluate the substrate prior to application of the epoxy overlay.

Mixing: Transpo T-526 resin comes in two components (T-526A resin and T-526B hardener). Thorough and complete mixing of these two components is vital for uniform curing and performance. Mix parts A & B together in a 1:1 volume for 2-3 minutes using a Jiffy mixer (or equal) powered by low speed (400-650 rpm) electric drill until blend is uniform.

Transpo T-526 is applied using a Broom-and-Seed application method. It is recommended that the product and deck temperature be between 60 ºF and 100 ºF at the time of application. For lower temperature applications, please contact a Transpo technical representative for recommendations.

Broom-and-Seed Method

Transpo T-526 can be applied in a two-coat (1/4") or three-coat (3/8") application. With timber bridge decks, the deck surface should first be saturated with T-526 resin to ensure that the first coat of resin does not soak into the deck. To ensure proper adhesion, apply first coat prior to full cure of the saturation coat.

Resin Application: The first layer of T-526 resin is applied using 1/8" notched squeegees at the rate of 1 liter per square meter (2.5 gallons per 100 square feet) on the prepared surface. The second and third layers, if necessary, should be applied within 24 hours of the initial set of the previous coat. The T-526 resin for the second and third coats are applied at the rate of 2 liter per square meter (5 gallons per 100 square feet), and broadcast aggregate at approximately 1.5 lbs. per square foot.

Broadcast: A heavy broadcast can be applied after 15-20 minutes (depending on temperature) of the resin application until refusal. After the first layer is cured, all loose aggregate shall be removed by vacuuming or brooming and the next layer applied to completion. Broadcasting can be accomplished either by hand or by the use of mechanical spreading machines. Traffic shall not be allowed on the overlay surface until all layers of applications are complete and that the overlay is cured sufficiently to prevent damage from wheel loads.

Properties*

Property	Unit of Measure	Test
Neat Resin		
Mix Ratio	1:1 by volume	
Viscosity	1500 - 1600 cps (MpaS)	Brookfield
Pot Life (@ 70 ºF)	15 - 30 min	ASTM C 881 (70 ml)
Flash Point	>200 ºF (>93 ºC)	ASTM D1310
Volatile Content	1.57%	ASTM D1259
Tensile Strength	2500 psi (17.7 MPa) min.	ASTM D638
Tensile Adhesion (to concrete)	250 psi (2.1 MPa) min.	ACI 5038, App. A
Tensile Elongation	30% min.	ASTM D638
Compressive Strength	5000 psi (44.1 MPa) min.	ASTM C579
Thermal Compatibility	Pass (no crack or delamination)	ASTM C884
Absorption (14 days)	0.4%	ASTM D570 (88)

* To be used as general guidelines only

Packaging

	Part A	Part B
55 Gallon Drum		
Gross Weight (lbs.)	540	473
Net Weight (lbs.)	500	433
Nominal Volume (gal.)	55	55
5 Gallon Pail		
Gross Weight (lbs.)	51	44
Net Weight (lbs.)	48	41
Nominal Volume (gal.)	5	5

The aggregate used shall be angular shaped with a Mohs scale hardness of 6 or greater. The aggregate shall be clean, dry (less than 0.2% moisture), and free from dirt, clay, asphalt, and other organic materials. The aggregate shall have the following gradation:

Sieve Size	% Passing
No. 4	100
No. 8	30-75
No. 16	0-5
No. 30	0-1

Storage

Transpo T-526 should be stored in tightly sealed containers in a dry location and at normal room temperatures (50 ºF - 85 ºF). Some epoxy materials may crystallize during storage at low temperatures. Store away from acids and heat. The epoxy can be used once it has reached desired application temperatures.

Caution

Prolonged or repeated contact may cause sensitivity in some individuals. It is recommended that all persons involved in mixing and application wear protective clothing such as goggles, rubber boots, and rubber gloves. As with all chemicals, read MSDS prior to use.

Warranty

The following warranty is made in lieu of all other warranties, either expressed or implied. This product is manufactured of selected raw materials by skilled technicians. Neither seller nor manufacturer has any knowledge or control concerning the purchaser's use of either product and no warranty is made as to the results of any use. The only obligation of either seller or manufacturer shall be to replace any quantity of this product that proves to be defective. Neither seller nor manufacturer assumes any liability for injury, loss or damage resulting from use of this product.

10/01

20 Jones Street, New Rochelle, NY 10801
Tel: 914-636-1000 Fax: 914-636-1282
Web: http://www.transpo.com Email: info@transpo.com