

## Rubber/Epoxy Joint Material

### RUBBERCRETE (T-22)

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RUBBERCRETE is a composite mix of two-component urethane-epoxy resin and blended, crumb rubber and is used for filling expansion joints in bridge decks and other concrete structures. RUBBERCRETE's high flexibility can accommodate up to 100% tensile elongation thereby facilitating safe joint movement caused by thermal cycles and traffic loading. RUBBERCRETE is completely impervious and will prevent any ingress of moisture, chlorides, salts, and other corrosion inducing substances.

#### Application Procedure

It is recommended that the ambient temperature be between 50 °F and 100 °F at the time of joint application.

Surface Preparation: It is strongly recommended that all surfaces that are to receive RUBBERCRETE be sandblasted and free of all dirt, grease, rust and other contaminants that might interfere with the proper adhesion of the joint material. All damaged or deteriorated concrete shall be removed, cut back to sound concrete, and repaired with appropriate materials and methods.

Mixing: RUBBERCRETE consists of a mix of Transpo T-22 epoxy resin and blended, crumb rubber. Transpo T-22 resin comes in two components (T-22A resin and T-22B hardener). A unit mix of RUBBERCRETE consists of the following:

UNIT MIX	
Material Component	Quantity
T-22A resin	2 quarts (1/2 gallon)
T-22B hardener	1 quart (1/4 gallon)
Rubber filler (6.6375 lb. bags)	1 bag

Mix parts T-22A & T-22B together for 2-3 minutes using a Jiffy mixer (or equal) powered by low speed (400-650 rpm) electric drill until blend is uniform. Thorough and complete mixing of the two resin components is vital for uniform curing and performance. Add the filler component (rubber) and mix thoroughly prior to application. Mixing can also be done in any multiple of the above UNIT mix ratio.

Finishing: RUBBERCRETE can be leveled and finished using steel trowels. A unit mix gives an approximate volume of 0.25 cu. ft.

#### Storage

Transpo T-22 should be stored in tightly sealed containers in a dry location and at normal room temperatures (50 °F – 85 °F). Some epoxy materials may crystallize during storage at low temperatures. The epoxy can be used once it has reached desired application temperatures.

## Physical Properties Technical Data Sheet

Filled System	Unit of Measure	Test Method
Resin (Part A/Part B) Ratio Resin/Filler Ratio	2:1 by volume 1:1 by weight	
Density	62.8 lb/ft <sup>3</sup>	ASTM D 2849
Compressive Strength	800 psi (75% deformation)	ASTM D 1621
Compressive Modulus	20,000 psi	ASTM D 1621
Tensile Strength (75°F)	300 psi	ASTM D 638
Tensile Elongation (75°F) (5°F)	150% 15%	ASTM D 638

\* To be used as general guidelines only

### Caution

Transpo T-22B (hardener component) contains an alkaline amine. 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, rubber gloves. As with all chemicals, read MSDS prior to use.

### Packaging

Transpo T-22A Resin: 2 Quart (1/2 Gallon) Pail

Transpo T-22B Hardener: 1 Quart (1/4 Gallon) Pail

Recycled Rubber: Prepackaged bags of 6.6375 lbs of rubber

### 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.

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