



# RIO-DECK TCA

Traffic Coating Topcoat Aliphatic

## PRODUCT DESCRIPTION

RIO DECK TCA is a high solids, low odor, low VOC waterproofing membrane system that consists of a two component fast cure, urethane/polyurea base coat.

RIO DECK TCA is used as a tough, roofing and waterproofing membrane to endure a broad range of construction applications where a heavy duty traffic grade waterproofing membrane is required. The RIO DECK TCA traffic coating system is utilized for vehicular and pedestrian traffic decks as well as between slab or sandwich plaza deck waterproofing, IRMA roof applications and single ply roof coating.

## TYPICAL PROPERTIES

Dry Film Thickness, exclusive of aggregate; Per Coat at 1 gal/100 sq. ft:	14.8 mils 375 micron
Pot Life at 75°F:	40 ±10 minutes
Cure Time at 75°F:	2-4 hours
Weight per Gallon;	
A-Component:	9.10 lbs.
B-Component:	8.01 lbs.
Percent Solids Content, ASTM 0-2369;	
Solids by Weight:	95%
Solids by Volume:	92.8%
Hardness, ASTM 0-2240:	85 ± 5 Shore A
Tensile Strength, ASTM 0-412:	3200 ± 10% psi
Percent Elongation, ASTM 0-412:	450 ± 10%
Adhesive Peel Strength on Primed Concrete; ASTM 0-903:	40 pli
Moisture Vapor Transmission, ASTM E-96:	1.54 perms
Water Absorption, ASTM 0-471:	<1.3% by weight
Tear Resistance, ASTM 0-624:	300 ± 10% pli
Volatile Organic Compounds: ASTM 0-2369-81:	< 0.5 lb/gal < 60 gm/liter
I.I.V. Stability, Q Panel Weather-O-Meter: (No cracking or crazing; no physical damage)	2000 hours
Water Resistance ASTM D-2247: (No cracking or crazing; erosion, delamination and no physical damage)	Passes
ASTM E-108 Class A Fire Rated (non-combustible deck)	Passes
Flame Spread @ ASTM E-108:	less than 25%

*The data shown above reflects typical results based on laboratory testing under controlled conditions. Variations from the data shown may result. Test methods are modified where applicable.*

## BENEFITS

- Economical
- Controlled Cure
- Resistant to Bacterial Growth
- Labor Saving
- Not For Use in SCAQMD Areas
- Meets the Criteria of ASTM C-836 & E-96BW
- Non-Gassing
- User Friendly
- Fast Curing
- Fast Recoat Times
- LEEDS qualified
- Highly Flexible over extreme temperatures
- Low Odor
- No Heating Kettles
- Meets SCAQMD VOC Requirements
- Fills Ponds and Low areas
- Applied at any required thickness
- Compatible with Asphalt Roofing

## APPLICATIONS

- Re-roofing
- Vehicular Parking Decks
- Pedestrian Decks
- Between Slabs
- Foundation Walls
- Terrazzo and Tile Floors
- EPDM
- I.R.M.A Roofing
- Under Malls, Plazas and Promenade Decks.
- Green Roof Waterproofing
- Balcony/Breezeway
- Modified Cap Sheet
- Polyurethane Foam

## COLOR

- Medium Gray
  - Tan
  - White
- Special Colors upon request.*

## PACKAGING

- 4.5 Gallon Kit, One 5 gallon pail, net 4.1 gallons of Side A and one ½ gallon jar, net 0.4 gallons of Side B.

## **INSTALLATION STEPS**

### **Mixing**

RIO DECK TCA 1, 5, or 55 Gallon drum of RIO DECK TCA should be thoroughly mixed using a mechanical mixer at slow speed to ensure a homogeneous material. Take care not to allow entrapment of air into the material. The ratio of base to catalyst is 10:1. Therefore, when catalyst is added to the base membrane, thorough mixing is required.

### **Joints, Cracks, and Flashing**

Bridge the joints and cracks with 4 inch Super Seal Polyester Tape or Bamilex Tape. Do not prime over Super Seal Tape. Super Seal Tape must be firmly pressed into place using heavy downward hand pressure with a 4" putty knife (see data sheet). Over reinforcement tape apply a thin coat of RIO DECK TCA and smooth onto adjacent surface. Apply RIO DECK TCA over all primed joints and cracks.

### **Application**

- RIO DECK TCA shall be applied directly with a brush, squeegee, trowel or phenolic core roller at a minimum of 20 mils thick in one or more applications. Where desired, a reinforcement may be used with RIO DECK TCA between the 20-40 mil coats, please contact RIO representative for more information. The fabric should be placed while the coating is wet or tacky and broomed into place leaving no air pockets or wrinkles.

### **Roofing**

RIO DECK TCA may be utilized as an exposed roof coating, with or without a covering. When roof granules or aggregate are applied, the coating is in the "thumbprint tacky" stage and before the coating loses its tack.

### **Curing**

RIO DECK TCA is sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in thickness of application.

### **Protection**

RIO DECK TCA systems require the product be protected from damage during the construction phase.

### **Cleaning**

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

### **Disposal**

All materials should be disposed of in accordance with all Federal, State or Local regulations.

### **Storage and Shelf Life**

Store material in a cool and dry place out of direct sunlight. Do not store near open flame or ignition source. Read and understand all product labels and SDS prior to use. RIO DECK TCA has a shelf life of six (6) months from date of manufacture in original, factory sealed containers.

### **Limitations**

- Surfaces must be dry, clean and free of foreign matter.
- Not for use over hot rubberized asphalt without written consent of RIO.
- Cannot withstand extended direct wear or abrasion.
- Containers that have been opened must be used as soon as possible.



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