



RIO-COAT EPT

Topcoat

PRODUCT DESCRIPTION

RIO-COAT EPT Topcoat is a high solids, thickened epoxy for sealing an overlay or if an “orange-peel” texture is desired.

TYPICAL PROPERTIES

Coverage Rate, ft ² /gal [m ² /L]	200-300 [4.92-7.87]
Application Thickness, wet mils [mm]	5-8 [0.13-0.20] per coat
Percent Solids, by wt [by vol]	
ASTM D2369	A +B = 95.12 [94.92]
VOC:	
ASTM D3960	A+B = 0.44 lb/gal [53 g/L]
Abrasion Resistance, mg loss	
Taber Abraser, CS-17 Taber Abrasion Wheel, 1,000 gram load, 1,000 revolutions	
ASTM D2047	83
Tensile Strength, psi [MPa]	
ASTM D2370	8,000 [55.16]
Percent Elongation	
ASTM D2370	5
Shore D Hardness	
ASTM D2240	75-80 @ 0 sec, 65-70 @15 sec

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. Results are based on conditions at 77°F (25°C).

CHEMICAL RESISTANCE PROPERTIES

	1 Day	7 Days		1 Day	7 Days
Acids, Inorganic			Solvents, Aromatic		
10% Hydrochloric Acid	E	E	Xylene	F	P
30% Hydrochloric Acid (Muriatic)	E	E	Solvents, Chlorinated		
10% Nitric Acid	E	G	Methylene Chloride	P	P
50% Phosphoric Acid	F		Solvents, Ketones & Esters		
37% Sulfuric Acid (Battery Acid)	G	G	Propylene Glycol Methyl Ether Acetate (PMA)	F	F
Acids, Organic			Miscellaneous Chemicals		
10% Acetic Acid	F	P	20% Ammonium Nitrate	E	E
10% Citric Acid	E	G	Brake Fluid	F	F
Oleic Acid	G	F	Bleach	G	G
Alkalies			Motor Oil (SAE 30)	E	E
10% Hydrochloric Acid	E	E	Skydrol® 500B	F	P
50% Sodium Hydroxide	E	E	Skydrol® LD4	F	P
Solvents, Alcohols			20% Sodium Chloride	E	E
Ethylene Glycol (Antifreeze)	E	E	1% Tide® Laundry Soap	E	E
Isopropyl Alcohol	F	F	10% Trisodium Phosphate	E	E
Methanol	F	F			
Solvents, Aliphatic					
d-Limonene	E	E			
Jet Fuel - JP-4	E	E			
Gasoline	E	E			
Mineral Spirits	E	E			

Registered trademarks: Tide® of Proctor and Gamble and Skydrol® of Solutia, Inc.
 ASTM D1308 Test Method 3.1.1 spot test, covered. Results are based on 1-day and 7-day. Coating cured 2 weeks prior to testing.
 Legend:
 E - Excellent (No Adverse Effect) - Recommended. F - Fair (Moderate Adverse Effect) - Not recommended.
 G - Good (Limited Adverse Effect) - Use for short-term exposure only. P - Poor (Unsatisfactory) - Little or no resistance to chemical.
 *Only adverse effect was staining.
 NOTE: Reduced chemical resistance and staining is possible in pigmented versions of the system.

BENEFITS

- LEED® v4 – Indoor Air Quality credits available.
- Meets requirements per CDPH-CA Section 01350 Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental chambers Version 1.2.
- Environmentally and user friendly
- Reduced solvent means less evaporation and less waste.
- Low Odor. Can be applied during normal business hours.
- Complies with SCAQMD VOC regulations--<100 g/L.

APPLICATIONS

- Walls
- Seal coat for epoxy mortar
- Base coat to create texture

PACKAGING & COVERAGE

- 3 Gal Kit
 (Part A-Resin (2 Gal), Part B-Hardener (1 Gal))

Colors:

Use colorants at a rate of one unit per 3-gallon (11.34 litres) unit of RIO-COAT EPT Topcoat.

Standard Colorants:

White, Yellow, Light Gray and Rotunda Red will not impart total hide. Use these colorants at a rate of two units per 3-gallon (11.34 litres) mix. Similar colorants also may not hide as well. Refer to Color Selection Guide or consult RIO Technical Support.

UV/Light Stability: This product is not light stable and will yellow/amber over time.

INSTALLATION STEPS

Before you begin:

CHECK THE TEMPERATURE AND HUMIDITY: Floor temperature and materials should be between 65°F (18°C) and 90°F (32°C). Humidity must be less than 80%. DO NOT coat unless floor temperature is more than five degrees over the current, local dew point.

Application Equipment

Protective clothing	Roller assembly (18")
Jiffy® mixer blade	Medium (3/8") nap roller
Slow speed drill (500 rpm or less)	Spiked shoes
18-24" Flat rubber squeegee	

Due to the limited pot life of the material, all application equipment, etc. should be ready for immediate use. (Clean roller with tape to remove any residual lint.)

Recoat

RIO-COAT EPT Topcoat may be used to coat over an existing epoxy in sound condition. Detergent scrub and rinse with clean water to remove surface dirt, grease, oil and contaminants. Floor must be sanded thoroughly with 80 grit paper/60 grit screen prior to recoating. We recommend thorough sanding with a swing-type buffer so that multiple scratch marks cause an obvious gloss loss on all areas (depressions will remain shiny), and the floor is uniformly dulled. The ability to see individual scratch marks is an indication that sanding is not adequate. Scrub with detergent and rinse with clean water before coating.

Bare Concrete Application

RIO-COAT EPT TOPCOAT MUST BE APPLIED OVER A RIO HIGH SOLIDS EPOXY PRIMER. RIO-COAT EPT Topcoat is too thick to effectively wet out and penetrate concrete pores. (See appropriate epoxy product bulletin for application instructions.)

Application - Seal Coat

Seal with one coat of RIO-COAT EPT Topcoat. It can also be used to create texture over a RIO epoxy or as part of a RIO wall system. COVERAGE RATE: 5-8 mils (0.13-0.20 mm), 200-320 sq. ft. per one gallon (18.6-29.7 m² per 3.78 litres).

COLORS: Premix RIO Colorant before adding to RIO-COAT EPT Topcoat to ensure uniform color. Add colorant to RIO-COAT EPT Topcoat Part A and mix using a Jiffy® mixer blade and slow speed drill.

ADD RIO-COAT EPT TOPCOAT Part B TO RIO-COAT EPT TOPCOAT PART A and mix well using a Jiffy® mixer blade and slow speed drill.

MIX FOR 2-3 MINUTES using a Jiffy® mixer blade. POTLIFE: Mix only enough material which can be applied within 20 minutes.

POUR THE MIXTURE IN A BEAD over the cured mortar or epoxy. WITH A SQUEEGEE, SPREAD THE RIO-COAT EPT TOPCOAT. Sealing without backrolling will minimize texture. BACKROLL WITH A 3/8" NAP ROLLER for a uniform finish. The use of spiked epoxy shoes will allow freedom of movement on the wet floor.

NOTE: If backrolling, to ensure a more uniform texture, a separate individual may finish roll by pushing or pulling a roller across the floor in one direction. Unpigmented RIO-COAT EPT Topcoat will dry "milky" if put down at more than 6 mils (0.15 mm). ALLOW SYSTEM TO CURE 8-10 hours at 75°F (24°C).

Sanding Required

RIO-COAT EPT Topcoat must be thoroughly sanded if applying Eco-HPS 100 (see chart below). APPROXIMATE SAND TIME (hours) - °F (°C):

	65 (18.3)	70 (21.1)	75	80 (26.7)	90 (32.2)
(23.9)	24	20	16	12	8

RIO-COAT EPT Topcoat must also be sanded if applying other RIO urethanes after 24 hours. Use 80 grit sandpaper. The use of more aggressive paper will introduce deep grooves that will not be covered by a single, thin coat of urethane; swirl marks will be particularly evident if the topcoat is glossy. We recommend thorough sanding with a swing-type buffer so that multiple scratch marks cause an obvious gloss loss on all areas (depressions will remain shiny), and the floor is uniformly dulled. The ability to see individual scratch marks is an indication that sanding is not adequate. Scrub with detergent and rinse with clean water before coating and tack rag to remove fine dust.

Disposal

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

Storage and Shelf Life

All materials should be stored in original – unopened containers in an enclosed building out of direct sunlight. Ideally the materials should be between 65-90°F for 24 hours prior to installation. Installation of materials at temperatures outside of this range may make them difficult to install. The shelf life in unopened containers is a minimum of 1 year. Consult RIO FLOORING SYSTEMS if you have any concerns about materials.

Maintenance Guidelines

Allow floor coating to cure at least one week before cleaning by mechanical means (e.g., sweeper, scrubber, disc machine).

Care: Proper maintenance will increase the life and help maintain the appearance of your new RIO floor coating. Sweep and scrub your new coating regularly, as dirt and dust are abrasive and can quickly dull the finish, decreasing the life of your coating. Remove spills quickly as certain chemicals may stain and could possibly permanently damage the finish. Use soft nylon brushes or white pads on your new floor coating. Any brush more abrasive than a soft nylon or white pad can cause premature loss of gloss.

Caution: Avoid scratching or gouging the surface. All floor coatings will scratch if heavy objects are dragged across the surface.

Do not drop heavy or pointed items on the floor as this may cause chipping or concrete popouts in the case of a weak cap. Rubber tires can permanently stain the floor coating from plasticizer migration. Plexiglass® between the tire and the floor coating can prevent discoloration.

Rubber burns from quick stops and starts can heat the coating to its softening temperature, causing permanent marking.

Repair: Repair gouges or scratches or chip outs as soon as possible to prevent moisture or chemical contamination.

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