FLOORING SYSTEMS

TECHNICAL DATA SHEET

RIO-DECK EB

Elastomeric, Polyurethane Waterproofing Base Membrane

PRODUCT DESCRIPTION

RIO DECK EB is a solvent free, single component, liquid applied, water catalyzed, polyurethane elastomeric waterproofing base membrane.

APPLICATIONS

- Light auto traffic
- Concrete dusting
- Pedestrian traffic
- Tank linings and coatings
- Ship deck overlays
- Concrete bridges
- Concrete or plywood decks
- Most metal, wood, or masonry surfaces

TYPICAL PROPERTIES		
Property	**Results**	**Test Method**
Shore A Hardness:	60 ± 5	ASTM D2240
Tear Resistance, Die C:	170 ± 25 pli 29.5 ± 5 kNm	ASTM D624
Tensile Strength:	1200 ± 150 psi	ASTM D412
Ultimate Elongation:	500 ± 100%	ASTM D412
Water Absorption by Wt:	0.05%	ASTM D471
Total Solids by Wt:	93 ± 2%	ASTM D2369
Total Solids by Volume:	90 ± 2%	ASTM D2697
Volatile Organic Compounds:	<0.7 lb/gal <84 gm/liter	ASTM D2369-81

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

- Solvent free
- High tensile
- Proven protection
- Seamless waterproofing membrane
- Optional fast cure with added accelerator

PACKAGING & COVERAGE

- 1 Gallon (3.78 liter) Can with a partial vial of catalyst.
- 5 Gallon (19 liter) Pail with a full vial of catalyst.
- 55 Gallon Drums, net fill 50 gallons (189 liters) with a 1/2 pint can of catalyst. Contact RIO for availability of 55 gallon drums.

Color: White

LIMITATIONS

- RIO DECK EB should be used only as a base membrane. The components of RIO DECK EB are not UV stable and are not designed to withstand direct wear/abrasion.
- Ensure that the substrate is properly prepared prior to application. Surfaces to be coated with RIO DECK EB must be dry, clean, free of foreign matter, and primed with recommended RIO Primer. Primer is optional over new plywood.
- RIO recommends that an aggregate of washed, dry, rounded, crystal silica sand, 20 mesh (0.0331 in.; 0.84 mm), with 6.5+ Moh's minimum hardness or EPDM rubber granules 14-30 mesh size be used to aid in slip resistance. Applicator should determine mesh size based on job requirements.
- Any remaining material must be tightly sealed to protect it against curing in its container. Containers that have been opened must be used within 1 or 2 weeks since RIO DECK EB is a moisture reactive material that begins to cure when exposed to air.
- RIO does not recommend that RIO DECK EB be diluted with solvent.

INSTALLATION STEPS

PREPARATION & MIXING

Before application, pre-mix RIO DECK EB using a mechanical mixer (Jiffy Mixer) at slow speeds or mix for at least 5 minutes, if mixed by hand. Mix RIO DECK EB thoroughly until a homogeneous mixture and color is obtained. Use care not to allow the entrapment of air into the mixture. Add RIO DECK Catalyst (1 vial per 5 gallon pail) and mix until a homogeneous mixture and color is obtained. Allow mixture to stand for 5 minutes, then mix again before applying to the substrate.

Joints, Cracks, and Flashing: Cracks over 1/16 inch (0.16 cm) shall be routed before reinforcing. Prime all joints, cracks, and flashings with recommended RIO Primer. Primer is optional over new plywood.

Mix pre-accelerated RIO DECK EB with water at a ratio of 4:1 (1 gallon of RIO DECK EB: 1/4 gallon of water) by volume. Mix thoroughly until water is completely combined with RIO DECK EB. Apply RIO DECK EB mixture over all joints, cracks, and flashings. Bridge the joints, cracks, and flashings with 4" Fiberglass Straight Jacket Tape or 3" Polyester Tape, pushing it into the sealant with a trowel. Apply a thin coat of RIO DECK EB paste over the reinforced tape and smooth onto adjacent surface.

APPLICATION

- For best results use a squeegee or notched trowel. Airless sprayer or phenolic resin core roller may be used but extra care should be taken not to trap air which may result in bubbles.
- Mix pre-accelerated RIO DECK EB with water at a ratio of 4:1 (4 gallons of RIO DECK EB: 1 gallon of water) by volume. Mix thoroughly until water is completely combined with RIO DECK EB. Spread RIO DECK EB mixture evenly over the entire deck.
- Application should not be stopped part way across an area. Each application should be done in one complete step. A continuous application will ensure a smooth and level coat with no lines or streaks to disfigure the deck coating. When RIO DECK EB mixed material begins to gel, broadcast 14-30 mesh rubber granules into the wet membrane or allow membrane to thicken until #1 or #2 washed dry sand (20 mesh, 6.5 Moh's minimum hardness) can be broadcast without the sand sinking into the membrane. Time for thickening is dependent on atmospheric conditions especially temperature and humidity. Allow coating to cure 2-4 hours before proceeding to subsequent coats.

Curing: Allow each coat to cure (depending on environmental condition-temperature) a minimum of 2-4 hours and a maximum of 24 hours. If more than 24 hours passes between coats, re-prime the surface with recommended RIO Primer before proceeding. RIO DECK EB is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application. Low temperature and/or low humidity extend the cure time.

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.

MAINTENANCE

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 EP has a shelf life of six (6) months from date of manufacture in original, factory sealed containers when stored at 75ºF.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.

Rio Flooring Systems

2626 Chester Ave.
Cleveland, OH 44114

info@riofloor.com
(877) 514-5336

riofloor.com

