

RIO-COAT EHB

Epoxy Grout Coating

PRODUCT DESCRIPTION

RIOCOAT EHB is a high solids epoxy coating that can be used for sealing a highly filled epoxy sand filled re-surfacer. This high-gloss surface is easy to clean and provides excellent protection against wear and abrasions.

TYPICAL PROPERTIES			
Hardener (Part B)	50°F	70°F	90°F
Working time (min):	30-40	20-25	15-20
Dry to Touch (hrs):	12-14	7-8	5-6
Maximum Re-coat (hrs):	36	30	24
Floor installation temperature limits: 50°F - 90°F (min to max).			
RIO-COAT EHB	Resin (Part A)	Hardener (Part B)	
Viscosity (70°F):	7,000-10,000 cps	60-90 cps	
Flash Point:	>300°F	>255°F	
Weight per Gal:	10.3 lbs./ Gal	8.1 lbs./ Gal	
VOC:	Pigmented 25 G/L		
Property	Results	Test Method	
Abrasion Resistance: (CS 17 wheels 1000 gram weight, 1000 cycles)	90 mgs.		
Water absorption:	<0.1 %	ASTM C-413	
Flammability:	Self-Extinguishing	ASTM D-635	
Adhesion to concrete:	>400 psi		
Compressive Strength: ASTM C579-A Resin (Part A) and Hardener (Part B) only			
	Pigmented		
16 hours	4900 psi		
24 hours	6103 psi		
72 hours	8510 psi		
7 days	10849 psi		

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

- Excellent chemical and impact resistant
- Stipple finish coating for slight non-skid
- Topcoat for sand filled re-surfacer
- Faster cure

PACKAGING & COVERAGE

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

Standard mix consists of 2 Gal of resin (Part A), 1 Gal of hardener (Part B), and if pigmented, 1 Quart of colorant.

Typically applied with a squeegee and back-rolled.

Can be applied at thicknesses ranging from 8 - 20 mils depending on the requirements of the job.

INSTALLATION STEPS

PREPARATION

Concrete must be cured for 28 days prior to coating, structurally sound, and free of contaminants including but not limited to waxes, loose paint, dust, dirt, grime, oils, release agents, curing compounds, and any surface laitance (a layer of weak and non-durable material). Concrete should be shot-blasted or diamond ground to achieve a minimum CSP 2 or CSP 3 profile (30-80 grit metal-bond diamonds).

Moisture Vapor Emissions Precautions: All interior concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride and relative humidity probe testing to determine if excessive levels of vapor emissions are present before applying any coatings. A moisture test should be performed resulting in a maximum MVT rate of 3 pounds per 1000 Sq. Ft. in 24 hours. Readings must be below 75% relative internal concrete humidity. RIO can supply moisture remediation products and information. Consult your Rio representative for more information. RIO and its representatives or sales agents will not be responsible for coating failures due to undetected moisture vapor emissions.

Note: Although testing is critical, it is not a guarantee against future problems. This is especially true if there is no vapor barrier or the vapor barrier is not functioning properly and/or you suspect you may have concrete contamination from oils, chemical spills or excessive salts.

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.

Concrete Preparation options

Steel Shot Blast: Use magnetic broom to remove excess shot, sweep to remove large debris and vacuum to remove fine dust.

Grinding: Sweep to remove large debris and vacuum to remove fine dust.

Filling Joints: Depending on the preference of the facility owner, joints may or may not be filled. If the joints are filled, non-moving joints, i.e. contraction or control joints, can be hard filled with thickened epoxy or with a semi-rigid joint filler.

Isolation or expansion joints must be filled with a flexible material designed for this purpose. Coating applied over filled joints may crack if there is concrete movement.

MIXING

The materials are packaged in 3 Gal Kits. The prepackaged units should be mixed as follows: Open the 5 Gal Pail marked Resin (Part A), open the 1 Gal Can marked Hardener (Part B) and pour into the 5 Gal pail. If colorant is required turn on the jiffy type mixer and add the colorant to vortex of the mixer as it is running. Mix for 2-3 minutes.

Temperature affects the pot life and working time of the materials. The higher the temperature the shorter the working time. Do not mix more materials than can be installed with-in the pot life period.

APPLICATION

Coverage: Typically applied with a squeegee and back-rolled. Can be applied at thicknesses ranging from 8 - 20 mils depending on the requirements of the job.

- Immediately pour the mixed material on to the concrete floor or previously coated floor and squeegee out the materials at the desired application thickness. The coating should then be back rolled with a chemical resistant roller cover to level the primer and eliminate any puddling.
- In some colors a variance of colors can be seen when the coating is being applied. It is recommended to not roll back into coating that has been setting for several minutes as a color change may be seen after the coating has cured.
- It is always necessary to pour the freshly mixed coating into a wet edge when squeegeeing.

Curing:

Hardener (Part B)	50°F	70°F	90°F
Working time (min):	30-40	20-25	15-20
Dry to Touch (hrs):	12-14	7-8	5-6
Maximum Re-coat (hrs):	30	28	24

Floor installation temperature limits: 50°F - 90°F (min to max).

Cleaning: Any mixing and application equipment should be cleaned immediately upon completion of the job. Xylene can be used to clean all the equipment.

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

SAFETY

Follow recommendations for ventilation. Avoid contact with eyes or skin. Skin contact requires washing immediately with soap and water. Eye contact requires immediately flushing eyes with water. Please consult physician. If clothes become contaminated remove and wash prior to wearing again. These materials are for industrial use only.

MAINTENANCE

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 60-80°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.

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.