

RIO-COAT EQR

Epoxy Quartz Resin

PRODUCT DESCRIPTION

Rio-Coat EQR resin is a Thixotropic version of Rio-Coat EUV. This product was specifically designed for vertical applications where extra sag resistance is required. Upon mixing, the viscosity drops significantly which makes mixing and handling easy. However, when the mixing blade is removed the viscosity rises once again. This added viscosity makes cove work easier and more efficient, while maintaining the toughness and chemical resistance found in Rio-Coat EUV resin.

APPLICATIONS

This formula was developed specifically for installing cove and may be used in all phases of that process. (Prime coat, Base coat, and Topcoat) The product can also be used for:

- patching material for hairline cracks, sawcuts and spalled areas
- minor patching to level an area

TYPICAL PROPERTIES		
Standard Colors:	Clear, no tint	
Mix Ratio (by volume):	Combine 1 part hardener to 2 parts resin	
Viscosity:	17,000 cps at 70°F (mixed hardener & resin)	
Physical Property	Result	Test Method
Hardness, Shore D:	75 - 80	ASTM D-2240
Water Absorption:	0.04%	ASTM D-570
Flammability:	Self extinguishing	ASTM D-635
Flame Spread/NFPA-101:	Class A	ASTM E-84
Tensile Strength:	12 - 13,000 psi	ASTM D-638
Flexural Strength:	18 - 19,000 psi	ASTM D-790
Compressive Strength:	17.5 - 19,000 psi	ASTM D-695
Izod Impact: (ft. lb./in. notch)	0.50	ASTM D-256
Bond Strength to Concrete:	Concrete fails before loss of bond	ACI - 403
Elevated Temperature:	No slip or flow	MIL D-3134
Salt Spray Resistance, 25% solution at 90°F:	No effect after 100 hours	
Thermal Shock: 50 cycles of immersion in chilled & boiling water	No cracking or loss of adhesion	MIL F-52505

TYPICAL PROPERTIES

Abrasion Resistance: (CS-10 Wheel, Wgt. Loss, 1000g Load, 1000 cycles)	30 mg	
VOC Content:	40 g/l	

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

CURE SCHEDULE: (70°F)

Pot Life..... 25-30 minutes
Touch Dry 6-8 hours

Cured Film Thickness:
16 mils at 100 SF per gallon spread rate

BENEFITS

- Low Odor
- Coves Close Up Tighter
- Versatile Usage
- Concrete Repair
- Good Chemical Resistance
- Tenacious Bonding Quality

PACKAGING & COVERAGE

- 15 Gallon kits

LIMITATIONS

- This product is best suited for application in temperatures between 55°F and 95°F. Substrate must be clean, sound, and dry.
- Don't leave a heavy topcoat on cove base, pull excess sealer off with squeegee.

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.

APPLICATION

Prime the wall with a light coat of the mixed resin and hardener. Next, trowel up a mixture of 1.5 qts of blended epoxy to #25 Color Quartz or Silica Sand. When that has cured, use a brush to topcoat. Be sure to remove any excess material with a squeegee. This should be done by pulling the material down to the bottom of the cove radius, then back up to the top edge of the cove. Do not apply on broadcast quartz floors. Because the surface is not smooth, the finish will appear white. Topcoat smooth troweled surfaces only. Rio-Coat EQR is typically applied at 200-250 linear feet per gallon.

CAUTION

Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed. KEEP OUT OF REACH OF CHILDREN.

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

Seller warrants that its goods, as described on the face hereof, are free from any defects in material or workmanship. Seller makes no other warranty, express or implied, and all implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Seller shall not be liable for prospective profits or special indirect or consequential damages. Seller's sole liability and buyer's exclusive remedy for breach of any warranty as expressly limited, at seller's option, to replacement at the original F.O.B. point or refund of purchase price. Seller shall not be responsible for any claim resulting from failure to utilize product in the manner in which it was intended and in accordance with instruction provided for use of product. Any claim for breach of warranty shall be deemed waived unless buyer shall give seller written notice of such claim within sixty (60) days after delivery and shall allow seller reasonable opportunity to investigate claim and inspect product.