



Rhino™ 1355-R1 Enhanced Low Viscosity Bis-F Epoxy Resin Data Sheet



ISO 9001:2000
FM62236

DESCRIPTION:

Low viscosity, undiluted Bis-F phenol novolac resin with high functionality, enhanced for added air release and fiberglass compatibility. Increased flexibility and chemical resistance as compared to standard Bis-A resins. Higher functionality (2.15) than competitive resins of similar viscosity. Exceptionally low hydrolyzable chloride content makes this resin a good material for electronics applications such as potting and encapsulation. No solvents, 100% solids, low odor and toxicity, DOT non-regulated.

SUGGESTED USES:

Filament winding, hand lay up laminating, vacuum bagging, tooling and pattern work, electronics, castings, surface coatings and chemically resistant flooring.

PROPERTIES OF RHINO 1355-R1 RESIN (NEAT):

Viscosity	3,200 – 4,800 cps
Weight/Gal	9.8 – 10.0lbs
EEW	164 – 176
Hydrolyzable Chlorides	<0.10% max
Color	3 max (Gardner)
Competitive Offsets	Proprietary Material

MIXING:

Use and store between 65° – 80°F (product and ambient temperatures), 45°F minimum. Use below 45°F requires special hardener selection, consult with Rhino sales personnel for low temperature recommendations. Remove all surface contaminants such as water, dirt, rust, and petroleum products. Mold surfaces must be waxed or otherwise “released” prior to epoxy application. All Rhino Hardeners are compatible with Rhino 1355 R-1 and should be proportioned in accordance with the selected Rhino Hardener mix ratio. Use of 1355-R1 resin in RTM or filament winding processes require specialized hardener(s) and equipment. Mix resin and hardener for 3 – 5 minutes being certain to scrape the bottom and sides of the mixing container. Mix no more material than can be applied before the expiration of the pot life.

CURING:

Rhino 1355-R1 curing is determined by the selected Rhino hardener, see the hardener technical data sheet.

HOW SUPPLIED:

9lb Gallons, 45lb Pails, and 500lb Drums. FOB San Diego, CA.

SAFETY PRECAUTIONS:

Health Considerations: Consult the Rhino Linings® Material Safety Data Sheets.

This chemical system requires the use of proper safety equipment and procedures. Please follow the Rhino Linings® product MSDS and Safety Manual for detailed information and handling guidelines.

For Your Protection:

The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Rhino Linings Corporation. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Rhino Linings Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors. Because of numerous factors affecting results, **Rhino Linings Corporation makes no warranty of any kind, express or implied**, other than that the material conforms to its applicable current Standard Specifications. Rhino Linings Corporation hereby disclaims any and all other warranties, including

SAFETY PRECAUTIONS OF RHINO™ 1355-R1 (CONTINUED):

but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of Rhino Linings Corporation for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.

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