



Rhino™ 1392-R-18

Coupled Epoxy Resin for Pultrusion

Data Sheet



ISO 9001:2000
FM62236

DESCRIPTION:

Low viscosity, toughened, extended pot life epoxy resin with excellent physical properties, an internal mold release and proprietary air release system, and Rhino's "-18" couplers to enhance fast wetting of Carbon, Aramid and E-Glass reinforcement materials. Rhino 1392-R-18 has superior bonding to steel reinforcements, particularly "Hardwire". The proprietary coupling technology of 1392-R-18 contributes significant long term resistance to fatigue and other dramatically enhances critical physical properties of cured laminates such as increased compression, peel strength, and shear strength. 100% solids, no VOCs and DOT/IATA non-regulated.

SUGGESTED USES:

Pultrusion systems, other epoxy/fiberglass applications where extended pot life, additional toughness, crack resistance and high impact strength are desired. Rhino 1391-R-18 has superior wet-out with E-Glass, Carbon and Aramid reinforcements, and superior bonding with proprietary steel reinforcements such as "Hardwire".

PROPERTIES OF RHINO 1392-R-18 RESIN (neat):

Viscosity:	700 – 800cps
EEW:	185 – 190
Color:	Clear/Light Amber
Weight/Gal:	9.6 – 9.7lbs

MIXING:

Recommend Rhino 1392-R-18 be used at slightly elevated temperature 75° – 95°F (product use temperature). Storage below 45°F is not recommended due to potential crystallization of the product (requiring re-heating to restore original viscosity). All standard epoxy curing agents are compatible with Rhino 1392-R-18 proportion resin and hardener in accordance with the selected hardener system's recommended mix ratio. Mix resin and hardener very thoroughly, being certain to scrape the bottom and sides of the mixing container. Mix no more material than may be applied before the expiration of the pot life.

CURING:

Refer to the selected curing agent's data for specific cure schedules and profiles.

HOW SUPPLIED:

45lb pails, 500lb drums and 2500lb totes (net weight). 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

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SAFETY PRECAUTIONS OF RHINO™ 1392-R-18 (CONTINUED):

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