

TECHNIREZ R2200 is a solvent free, liquid epoxy system specifically formulated for use with H2403 hardener to provide fire retardancy and excellent high temperature performance after post cure.

Thickness and degree of cure are critical to the fire performance of the end laminate and suitability must be discussed with an ATL Composites Technical Representative.

Complies with UL94-V0 flame retardant specification.

UNCURED PROPERTIES		
	R2200	H2403
Physical State	Clear liquid	Clear liquid
Viscosity mPas @ 25°C	1800 - 1850	15
Specific Gravity g/ml @ 25°C	1.17	0.93

*POST CURE SCHEDULE (Tg ₂ by DSC)	
	H2403
12 hours @ 25°C + 8 hours @ 50°C	68°C
+ 3 hours @ 120°C	105°C
+ 2 hours @ 150°C	116°C
+ 1 hour @ 200°C	126°C

* R2200 resin with H2403 exhibits brittle "B" stage at ambient temperature prior to post cure.

MECHANICAL PROPERTIES	
Standard Test Method for Tensile Properties of Plastics (ASTM D638-97)	H2403
Tensile Strength (MPa)	79.8
Tensile Modulus (MPa)	3468
Tensile Elongation at Break (%)	4.7
Standard Test Method for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials (ASTM 790-03)	
Ultimate Flexural Strength (MPa)	124
Flexural Modulus (MPa)	3723
Flexural Strain (%)	4.9

MIX RATIO

20 parts of hardener to 100 parts of resin by weight

Note: Care should be taken when dispensing and mixing. Do not attempt to control the cure time by altering the hardener ratio. Contact ATL Composites for specific information.

CURE CHARACTERISTICS	
	H2403
Pot Life-100g @ 25°C	50 mins
Demould Time @ 25°C	24h @ ambient + 8h @ 50°C
Mix Viscosity mPas @ 25°C	780
Shore D Hardness	86

The lower the post cure temperature the thicker the laminate needs to be to maintain fire rated properties.

As each customers configuration is different it needs to be verified by testing to confirm that the fire rated properties are maintained.

Please consult with an ATL representative to assess suitability in your application.

PACK SIZES

Order Code

Resin	Hardener	Pack
RC 2200 5 kg	HC 2403 1 kg	6 kg

STORAGE

TECHNIREZ R2200 resin and H2403 hardener will keep for 2 years if kept in original containers at room temperature (15°C to 32°C), and out of direct sunlight.

R2200 and H2403 are sensitive to moisture. Containers should be tightly sealed to prevent moisture absorption.

HEALTH AND SAFETY

TECHNIREZ R2200 resin and H2403 hardener have moderate sensitising potential, and should be kept out of the eyes and off the skin.

- Use with good ventilation and adequate safety equipment including impervious gloves and safety glasses.
- If skin contact occurs, remove contaminated clothing immediately, and wash the affected area thoroughly with water, avoiding the use of solvents except in the case of massive contamination.
- If eye contact occurs, immediately flush with running water for at least 15 (fifteen) minutes and seek medical advice.
- If swallowed:

Resins - DO NOT induce vomiting, and contact a doctor or the Poisons Information Centre.

Hardeners - DO NOT induce vomiting, give plenty of milk or water and contact a doctor or the Poisons Information Centre.

NOTE Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, express or implied, including any warranty or merchantability or fitness, nor is protection from law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special or consequential damages. 01/05/2018

