

KINETIX R230 is a solvent free, liquid epoxy resin formulated as a multi-purpose, room temperature cure system suitable for marine and industrial applications.

The R230 system is offered with a choice of three hardeners to provide a variety of pot-life and working times. The common mixing ratio also enables the hardeners to be blended.

This system is suitable for general purpose laminating, and can also be modified with appropriate fillers for bonding, filleting and fairing applications.

MIX RATIO

25 parts H230 hardener to 100 parts resin by weight
 25 parts H231 hardener to 100 parts resin by weight
 25 parts H232 hardener to 100 parts 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.

UNCURED PROPERTIES				
	R230	H230 Fast	H231 Medium	H232 Slow
Physical State	Clear liquid	Amber liquid	Clear liquid	Clear pale brown liquid
Viscosity mPas @ 25°C	1000	1600	160	35
Specific Gravity g/ml @ 25°C	1.12	1.06	1.00	1.00

CURE CHARACTERISTICS			
	H230 Fast	H231 Medium	H232 Slow
Pot Life - 100g @ 25°C (in air)	12-15 mins	35-40 mins	90-100 mins
Thin laminate gel time @ 25°C	2 hrs 30 mins	4 hrs 30 mins	8 hrs
Demould time @ 25°C	5 hrs	12 hrs	30 hrs
Mix viscosity mPas @ 25°C	725	550	380
Shore D Hardness 24 hours @ 25°C	73	79	76
Shore D Hardness 2 weeks @ 25°C	82	82	80
Shore D Hardness 8 hrs @ 60°C	85	82	82
Shore D Hardness 4 hrs @ 120°C	85	85	85
HDT 24 hours @ 25°C	47	43	39
HDT 2 weeks @ 25°C	53	50	48
HDT 8 hrs @ 60°C	77	68	62
HDT 4 hrs @ 120°C	75	74	74

CURED MECHANICAL PROPERTIES			
	H230 Fast	H231 Medium	H232 Slow
Tensile Strength	50 MPa	51 MPa	69 MPa
Tensile Elongation	10%	9.0%	7.7%
Tensile Modulus	3.0 GPa	3.1 GPa	3.2 GPa
Flexural Strength	96 MPa	81 MPa	120 MPa
Flexural Modulus	3.0 GPa	3.1 GPa	3.4 GPa

* Cured 16 hours @ 50°C

PACK SIZES				
Order Code		Order Code		PACK
Resin		Hardener		
RD 230	20 kg	HD 230	5 kg	
		HD 231	5 kg	
		HD 232	5 kg	25 kg
RF 230	200 kg	HF 230	50 kg	
		HF 231	50 kg	
		HF 232	50 kg	250 kg

STORAGE

KINETIX R230 and associated hardeners will keep for 2 years if kept in original containers at room temperature (15°C to 32°C), and out of direct sunlight. Containers should be tightly sealed to prevent moisture absorption.

HEALTH & SAFETY

KINETIX R230 and associated hardeners 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 ATL's 845 hand cleaner and 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. 21/05/12