



## Technical datasheet

# A-pox 800T - B-cure 24

A-pox 800T is high performance, cost effective, low viscosity system, based on tetra functional epoxy, especially design tooling system for manufacturing carbon or glass moulds from liquid infusion process. It has low initial cure temperature of 45 °C and can be post cured to achieve high glass transition temperature of 160 °C.

### Features:

Formulated for high thermal oxidative stability up to 160 °C.

Exhibit low shrinkage with both glass and carbon fibre reinforcement.

Long pot life at room temperature.

Provide significant lower mix viscosity while retaining high temperature resistance.

Very good wetting properties.

### Typical applications:

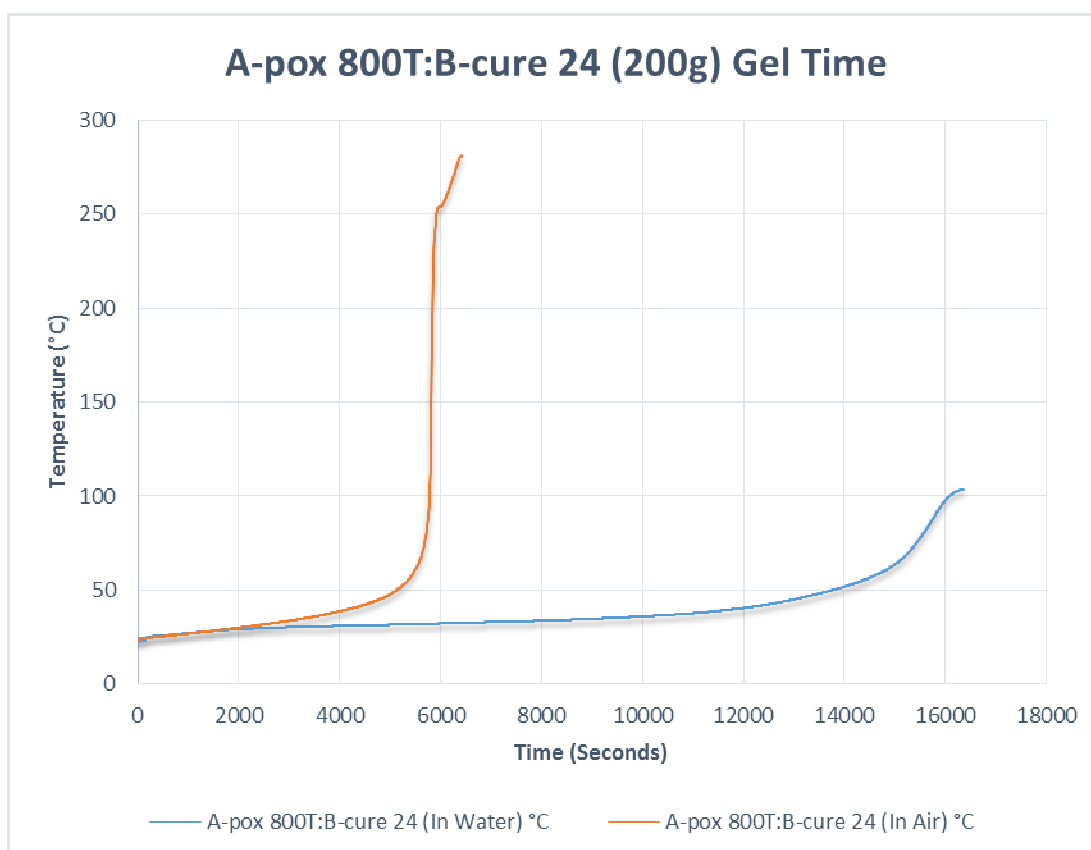
Developed specially for manufacturing glass and carbon fibre moulds from infusion process. It is recommended to be used with B-Cure 24 in 100:33 ratio.

### Typical Properties:

Properties		
	A-pox 800T	B-cure 24
Equivalent Weight	130 – 132 g/eq.	42 – 44 g/eq.
Viscosity at 25°C	750 – 850 cps	15 – 25 cps
Colour (Gardener)	<7	<1
Appearance	yellowish to Amber liquid	Clear liquid
Density at 25°C	1.09 - 1.14 g/cm <sup>3</sup>	0.92 - 0.94 g/cm <sup>3</sup>



Working Properties	
Mix Ratio (A-pox 800T:B-cure 24)	100:33 (by Weight)
Mixed Viscosity at 25°C	350 – 400 cps
Mixed Density at 25°C	1.03 – 1.06 g/cm <sup>3</sup>
Gel Time (200g in Water at 25°C)	260 – 290 Minutes
Peak Exothermic Temperature (200g in Water at 25 °C)	90 – 110 °C
Gel Time ( 200g in Air at 25°C)	100 – 120 minutes

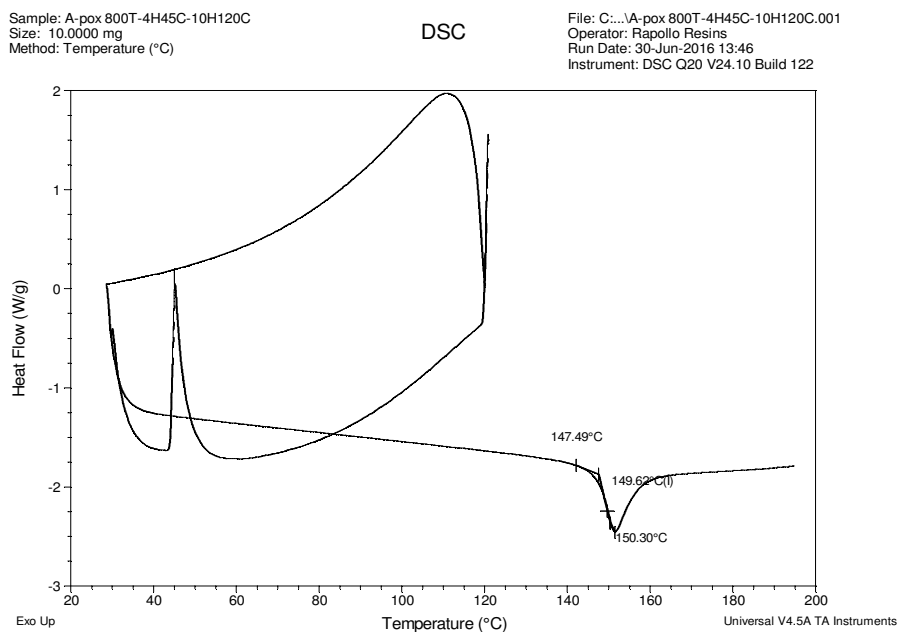




Cured Properties	
Mix Ratio (A-pox 800T:B-cure 24)	100:33 (by Weight)
Glass Transition Temperature (Tg) 4 hours Mid cure at 45 °C and 10 hours post cure at 120 °C	147.49 – 149.62 °C
Glass Transition Temperature (Tg) 4 hours Mid cure at 45 °C and 2 hours post cure at 150 °C	158.89 – 164.29 °C

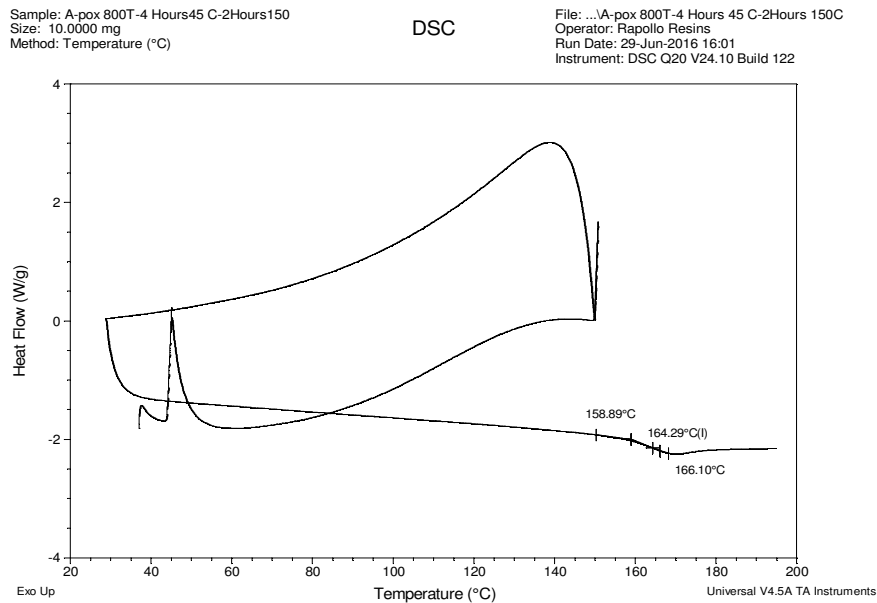
A-pox 800T Glass transition Temperature (Tg):

4 hours mid cure at 45 °C and 10 hours post cure at 120 °C.





4 hours mid cure at 45 °C and 2 hours post cure at 150 °C.



Handling precautions:

Product may cause skin and eye irritation. In cases of skin contact wash immediately with soap and water. For eyes, flush with plenty of water for 15 minutes and seek medical attention immediately.

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