# LAPOX<sup>®</sup> ARA-32 | AH-735

Technical Data Sheet | Polymers Business



Two component	Lapox ARA-32	100	pbw						
slow curing structural epoxy system	Lapox AH-735	45	pbw						
Description	Resin Lapox ARA- components to joir adhesive system is and improved fatigu ideal for non-saggir	32 and variou prefilled ue on ap ng and f	hardene s surface d with glas opropriate illing the	r Lapox A is includin is fiber to aly prepare gaps of up	H-735 are highly g FRP, metal, gla achieve higher low ed surfaces. Physic to 30 mm on verti	thixotropic structural adhesive ss, and wood etc. This epoxy er exotherm, cohesive strength cal state of adhesive make this ical surfaces.			
Applications	Adhesive can be us for joining wind mill	sed to be blades	ond vario , boats pa	us substra arts, sporti	tes of any size and ng goods etc.	geometry. It is recommended			
Processing	Recommended pro between -40°C to 8	cess co 0°C.	nditions is	s 10°C to	50°C. Appropriately	v cured adhesive performs best			
Typical specifications	Lapox ARA-32								
	Properties			Unit	Test method	Values			
	Appearance			-	Visual	Light-yellow, thixotropic paste			
	Density at 25°C			g/cm <sup>3</sup>	ISO 1183	1.2 - 1.3			
	Viscosity at 25°C	by rheo	meter <sup>1</sup>	m Pas	ASTM D2196	30 - 100			
	<sup>1</sup> Viscosity by rheometer at 25°C, plate-to-plate rheometer, gap 0.5 mm, 25°C shear rate 100 s-1.								
	Lapox AH-735								
	Properties			Unit	Test method	Values			
	Appearance			-	Visual	Blue, thixotropic paste			
	Density at 25°C			g/cm <sup>3</sup>	ISO 1183	1.05 - 1.15			
	Viscosity at 25°C by rheometer <sup>1</sup>			m Pas	ASTM D2196	10 - 20			
	<sup>1</sup> Viscosity by rheometer a	at 25°C, p	late-to-plate	rheometer,	gap 0.5 mm, 25°C, shea	ar rate 100 s-1.			
Processing properties	Properties		Unit		Test method	Values			
	Mixing ratio		-		Visual	Resin: 45 pbw Hardener: 50 pbw			
	Pot life at 30°C		Minu	ites	ASTM D2471	120 - 180			

°C / hours

Curing schedule

-

75°C / 8 hours

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Mixing

Resin and hardener should be mixed thoroughly before use from bottom and side walls. Colour of the components will help in visual identification of unmixed area. For good mixing of adhesive, mixing machine is essential. Mix between temperatures of 20°C and 35°C. Maintain surface temperature less than 35°C.

#### Typical properties of neat cured system

Curing schedule: 75°C / 8 hours Determined on standard test specimen at 25°C

Properties	Unit	Test method	Values
Tensile strength	m Pa	ISO 527	50 - 60
Elongation at break	%	ISO 527	Min. 1.5
Elastic modulus in tension	g Pa	ISO 527	Min 4.5
Glass transition temperature (DSC)	°C	ISO 11357 - 2	80 - 90
Tensile lap shear for 3 mm bond thickness (GRE - GRE)	m Pa	ISO 4587	12 - 18
Tensile shear strength for 1 mm bond thickness (GRE - GRE)	m Pa	ISO 4587	18 - 25

## Packaging Lapox ARA-32 and AH-735 are available in 30 kg, 110 kg and 240 kg carboys. Other packing may be considered on request.

- Storage and handling Lapox ARA-32 and hardener Lapox AH-735 have shelf-life of 2 years if stored in their original sealed containers. Resin and hardener may crystallise if stored below 15°C. Crystallisation may be reversed completely by heating the material between 60°C and 70°C. It is recommended to use resin and hardener only when they are clear and free from cloudiness. Both resin and hardener may cause irritation to sensitive skins. If contact occur then it should be washed off immediately with soap and warm water. Please refer to the Safety Data Sheet (SDS) for detailed instructions on storage and handling.
- Safety Wear personal protective equipment (PPE). Avoid contact with the eyes and skin. In case of direct contact and irritation, the resin should be washed off immediately with soap and warm water. Avoid breathing vapours, mist or gas. Please refer to the SDS for detailed safety instructions.
- **Spills and disposal** In case of spills, sweep up and shovel the spilled material. Keep spilled material in suitable, closed containers for disposal. Soak up with an absorbent such as clay, sand or other suitable material. Flush area with water to remove trace residue. Do not allow the product to reach the sewage system. Waste must be disposed of in accordance with federal, state or local regulations, as applicable.
- Contact E-mail: polymers@atul.co.in Website: www.atul.co.in
- Note Lapox<sup>®</sup> is a registered trademark of Atul Ltd.

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