LAPOX[®] ARA-32 | AH-733

Technical Data Sheet | Polymers Business



Two component	Lapox ARA-32	100 p	bw			
slow curing structural epoxy	Lapox AH-733	45 p	wdo			
system						
Description	components to join v adhesive system is pr and improved fatigue	various surf refilled with on appropr	aces includir glass fiber to iately prepar	ig FRP, metal, glass, achieve higher lower e	otropic structural adhesive and wood etc. This epoxy xotherm, cohesive strength state of adhesive make this surfaces.	
Applications	Adhesive can be used to bond various substrates of any size and geometry. It is recommended for joining wind mill blades, boats parts, sporting goods etc.					
Processing	Recommended process conditions is 10°C to 50°C. Appropriately cured adhesive performs best between -40°C to 80°C.					
Typical specifications	Lapox ARA-32					
specifications	Properties		Unit	Test method	Values	
	Appearance		-	Visual	Light-yellow, thixotropic paste	
	Density at 25°C		g/cm ³	ISO 1183	1.2 - 1.3	
	Viscosity at 25°C by	/ rheometer	¹ m Pas	ASTM D2196	30 - 100	
	¹ Viscosity by rheometer at 25°C, plate-to-plate rheometer, gap 0.5 mm, 25°C, shear rate 100 s-1					
	Lapox AH-733					
	Properties		Unit	Test method	Values	
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Proc	essi	ng	

properties

Density at 25°C

Viscosity at 25°C by rheometer¹

Properties	Unit	Test method	Values
Mixing ratio Resin : Hardener	-	Visual	100 : 45 pbw 100 : 50 pbv
Pot life at 30°C	Minutes	ASTM D2471	55 - 65
Curing schedule	°C / hours	-	75°C / 8 hours

ISO 1183

ASTM D2196

1.05 - 1.15

10 - 20

g/cm³

m Pas

¹Viscosity by rheometer at 25°C, plate-to-plate rheometer, gap 0.5 mm, 25°C, shear rate 100 s-1

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м	IY	ın	0
	17		м.

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 to 35°C. Maintain surface temperature less than 35°C.

Typical properties of neat cured system

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

Properties	Unit	Test method	Values
Tensile strength	MPa	ISO 527	50 - 60
Elongation at break	%	ISO 527	Min 1.5
Elastic modulus in tension	GPa	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	MPa	ISO 4587	12 - 18
Tensile shear strength for 1 mm bond thickness GRE - GRE	MPa	ISO 4587	18 - 25

Packaging Lapox ARA-32 and Lapox AH-733 is available in 30 kg, 110 kg and 240 kg carboys. Other packing may be considered on request.

- Storage and handling Lapox ARA-32 and Lapox AH-733 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 does occur to such operators then the resin and hardener 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[®] is a registered trademark of Atul Ltd.

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