LAPOX® AH-333

Technical Data Sheet | Polymers Business

Description

Lapox AH-333 hardener is a modified polyamine based hardener suitable for high mechanical performance applications in static and dynamic load conditions. The components cured at room temperature provides an excellent handling strength, the optimum properties, however, will only be obtained after post curing at temperature of more than 50°C. Fully cured components prepared by this system are recommended to operate between (-)60°C to (+)80°C temperature.

Applications

This system is suitable for very large range of applications including wind turbine blades, ships and boats, gliders, motor gliders and planes, recreational and sporting goods, moulds and tools, automotive, electrical, and other industrial and house hold components.

Processing

Contact pressure moulding
Filament winding
Resin infusion (RI)
Resin transfer moulding (RTM)
Vacuum and pressure bag techniques
Wet layup

Typical specifications

Properties	Unit	Test method	Values
Appearance	-	Visual	Clear liquid
Colour	GS	ASTM D1544	Max 4
Viscosity at 25°C	m Pas	ASTM D2196	150 - 300
Density at 25°C	g/cm^3	ISO 1183	0.98 - 1.04
Pot life at 25°C for 100 g mix[1]	Minutes	ASTM D2471	14 - 20
Potential Tg[1]	°C	DIN 11357-2	80 - 90

[1]Pot life and potential Tg with resin Lapox ARL-135 LV

Packaging

Lapox AH-333 is available in 1 kg HDPE bottles. Other packing may be considered on request.

Storage and handling

Lapox AH-333 has a shelf-life of 1 year if stored in their original sealed containers. 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. Hardener may cause irritation to sensitive skins. If contact does 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

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Note

Lapox® is a registered trademark of Atul Ltd.

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