

LAPOX[®] ART-22 | AH-326

Technical Data Sheet | Polymers Business



Ambient cure colourless epoxy gel coat

Lapox ART-22	100	pbw
Lapox AH-326	08	pbw

Description

Lapox ART-22 is a modified epoxy resins for gel coat applications. Lapox AH-326 is the hardener suitable to cure gel coat resins at ambient temperature. Mixing both gives a metal filled, greyish black gel coat system which provides hard, machinable surface after optimum curing. This gel coat is also thixotropic and suitable to achieve layers thickness up to 0.5 mm in single coat on vertical surfaces.

Typical specifications

Lapox ART-22

Properties	Unit	Test method	Values
Appearance	-	Visual	Greyish-black gel
Viscosity at 25°C	m Pas	ASTM D2196	50,000 - 1,00,000
Density at 25°C	g/cm ³	ISO 1183	3.10 - 3.15

Lapox AH-326

Properties	Unit	Test method	Values
Appearance	-	Visual	Clear, yellow liquid
Viscosity at 25°C	m Pas	ASTM D2196	3,400 - 5,000
Density at 25°C	g/cm ³	ISO 1183	1.05 - 1.1

Processing properties

Properties	Unit	Test method	Values
Mixing ratio (by weight)	pbw	-	8
Pot life at 25°C	Minutes	ASTM D2471	15 - 20
Demoulding at 25°C	Hours	-	4 - 5
Curing time at 25°C	Hours	-	8 - 10

Typical properties of neat cured system

Curing schedule: 8 hours to 20 hours / 25°C
Determined on standard test specimen at 25°C

Properties	Unit	Test method	Values
Cured density	g/cc	DIN 55990	3.2
Hardness	Shore D	-	85 - 90
Compressive strength	MPa	ISO 604	120 - 130
Flexural strength	MPa	ISO 178	65 - 70
Impact strength	J/m	ISO 80	3 - 4
Elastic modulus in flexural	GPa	ISO 178	10.5 - 11.5

Packaging

Lapox ART-22 is available in 30 kg, 110 kg and 240 kg carboys. Lapox AH-326 is available in 1 kg HDPE bottles. Other packing may be considered on request.

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Storage and handling

Lapox ART-22 and hardener Lapox AH-326 have a shelf-life of 1 year if stored in their original sealed containers. Hardener is sensitive to moisture. Container must be closed properly immediately after use. Resin is a mineral-filled system and has a tendency to settle. Stir it properly before use. Both resin and hardener may cause irritation to sensitive skins. If contact does occur, then it should be washed off immediately with soap and warm water, consult a doctor immediately. 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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