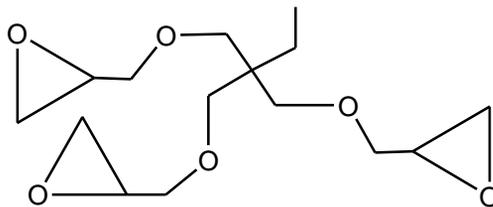


Description

Lapox ARD-55 is a low viscosity, high epoxy functionality reactive diluent based on tri-methylol propane. It is compatible with all types of epoxy resins in any proportion. Resins diluted with this can be suitably cured by epoxy curing agents for variety of applications. It provides high cross linking with good reactivity without affecting glass transition temperature significantly of cured system.

Chemical structure



Advantages

- High resistance to solvents and ammonia
- Improves wetting and processability
- Practically no reduction of hardness
- Provides good flexibility
- Reduces viscosity while maintaining most cured properties

Applications

- Civil engineering and flooring
- FRP composites
- Gel coats and prepregs
- High temperature encapsulation
- High temperature sealants
- Structural adhesives
- Vacuum pressure impregnation

Typical specifications

Properties	Unit	Test method	Values
Appearance	-	Visual	Clear liquid
Colour	GS	ASTM D1544	Max 2
Epoxy value	Eq/kg	ASTM D1652	7 - 8
Epoxy equivalent weight (EEW)	g/eq	ASTM D1652	125 - 143
Viscosity at 25°C	m Pas	ASTM D2196	100 - 200
Hydrolysable chlorine	%	ASTM D1726	Max 0.15

Packaging

Lapox ARD-55 is available in 200 kg HDPE drums and 1,000 kg IBC. Other packing may be considered on request.

Storage and handling

Lapox ARD-55 should be stored in cool and dry place, preferably in the sealed container and should not be exposed to direct sunlight. This has a shelf life of 2 years if stored in its original container between 2°C and 40°C away from humidity and excessive heat.

Safety	Wear personal protective equipment (PPE). Avoid contact with the eyes and skin. In case of direct contact and irritation, the reactive diluent should be washed off immediately with soap and warm water. Avoid breathing vapours, mist or gas. Please refer to the Safety Data Sheet (SDS) of Lapox ARD-55 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.

Manufacturing site

Atul 396 020, Gujarat, India

Telephone: (+91 2632) 230000 | 233261

E-mail: contact@atul.co.in

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