

## Description

Lapox ARP-12 is an unmodified low molecular weight solid epoxy resin based on bisphenol-A. It is available in form of flakes. The low viscosity of this resin makes it suitable for decorative powder coatings. It provides high gloss, excellent flow, good edge coverage and uniform coating. It is recommended to blend with other solid resins to improve flow and levelling. It can be suitably formulated by dissolving into various solvents for primers and paints. Such formulations can be cured with polyamidoamides, phenalkamines, cycloaliphatic amines and adducts. It is fairly soluble in solvents like methyl ethyl ketone, toluene, xylene, butanol and acetone. Due to lower softening point, it shows agglomeration of flakes upon storage in tropical weather.

## Advantages

- Compatibility with various solvents
- Excellent flow
- High gloss
- Very good flexibility

## Applications

- Powder coating
- Protective and marine coating
- Vinyl esters

## Processing

Powder coating

## Typical specifications

Properties	Unit	Test method	Values
Appearance	-	Visual	Light-yellow solid flakes
Colour <sup>1</sup>	GS	ASTM D1544	Max 1
Epoxy value	Eq/kg	ASTM D1652	1.42 - 1.53
Viscosity at 25°C <sup>2</sup>	m Pas	ASTM D2196	375 - 475
Melt viscosity at 150°C	m Pas	ASTM D4287	2,000 - 3,500
Softening point	°C	ASTM E28	80 - 90
Epoxy equivalent weight (EEW)	g/eq	ASTM D1652	650 - 700

<sup>1</sup>40% solution in butyl carbitol

<sup>2</sup>Ball and ring method

## Packaging

Lapox ARP-12 is available in 25 kg bags. Other packing may be considered on request.

## Storage and handling

Lapox ARP-12 should be stored in a cool and dry place, preferably in a sealed container and should not be exposed to direct sunlight. This product has a shelf-life of 2 years, if stored in its original container between 18°C and 25°C away from humidity and excessive heat. 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.

# LAPOX<sup>®</sup> ARP-12

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## 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<sup>®</sup> is a registered trademark of Atul Ltd.

## Manufacturing site

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