LAPOX® B-47 | K-41 | K-42

Technical Data Sheet | Polymers Business



Ambient cure, chemical resistant epoxy system

Description

Lapox B-47 is a reactive diluent modified liquid epoxy resin based on bisphenol A. Lapox K-42 is accelerated version of Lapox K-41. Reactivity or pot life of the mix can be altered by varying mixing proportions of Lapox K-41 and Lapox K-42. When resin and hardeners are used in appropriate ratio, this provides excellent chemical resistance and mechanical strength. Reactivity or pot life of the mix can be adjusted by adjusting mixing proportions of Lapox K-41 and Lapox K-42.

Advantages

Adjustable pot life

Good chemical and thermal resistance

Low viscosity Solvent free

Applications

Chemical resistant coating High solids coatings Industrial flooring

Typical specifications

Test	Unit	Reference	Value		
			Lapox B-47	Lapox K-41	Lapox K-42
Description	-	Visual	Clear viscous liquid	Brown yellow liquid	Dark brown liquid
Colour	GS	ASTM D1544	Max 1	Max 13	Max 16
Viscosity at 25°C1	m Pas	ASTM D2196	450 - 650	3,800 - 5,800	15,000 - 21,000
Epoxy value	Eq/kg	ASTM D1652	5.20 - 5.50	-	-
Amine value	Eq/kg	ASTM D2073	-	4.7 - 5.1	4.4 - 4.8
1Viscosity by Brookfield v	iscometer				

Viscosity by Brookfield viscometer

Mix specifications

Test	Unit	Reference	System-1	System-2	System-3
Lapox B-47	By weight	-	100	100	100
Lapox K-41	By weight	-	50	45	30
Lapox K-42	By weight	-	10	15	20
Mixing ratio	By weight	-	100:60	100:60	100:60
Mix viscosity ¹	m Pas	ASTM D2196	1,000 - 3,000	2,000 - 5,000	5,000 - 7,000
Pot life ²	Minutes	ASTM D2471	250 - 300	200 - 230	150 - 200

 $^{^{1}}$ Viscosity by Brookfield viscometer at 30 ± 1 $^{\circ}$ C

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²Pot life of 100 g mix mass at 25 ± 1°C in plastic disposable cup by 'Gardco' gel timer

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Chemical resistance of coated specimen¹

Water Resistant Sea water Resistant Castor oil Resistant Linseed oil Resistant Pine oil Resistant Fish oil Resistant Resistant Resistant Fuel oil Resistant Motor spirit Resistant Hexane Resistant Hexane Resistant Toluene Failure Hexane Resistant Toluene Failure Ethanol Failure Ethanol, 95% Failure Ethanol, 95% Failure Ethanol, 50% Resistant Isopropanol Resistant (upto 3 months) n-Butanol Resistant Glycolo Resistant Ethylene Glycol Resistant Propylene Glycol Resistant Propylene Glycol Resistant Retones Acetone Failure Acetone Failure Acetone Failure Acetic Acid (Glacial		Reagents	Conclusion
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		HNO ₃ , 10%	Resistant
		Phosphoric acid, 43%	Resistant
Alkalis Liquor Ammonia Resistant	Alkalis	Liquor Ammonia	Resistant

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	Ammonium Hydroxide, 10%	Resistant
	Caustic Soda, 30%	Resistant
	Carbon tetrachloride (CCl ₄)	Resistant (upto 3 months)
Chlorinated by dragarhana	Chlorobenzene	Failure
Chlorinated hydrocarbons	Epichlorohydrine	Failure
	Tri chloroethylene	Failure
	Di butyl phthalate	Resistant
Plasticizers	Di octyl phthalate	Resistant
	Tri cresyl phosphate	Resistant
	Beer	Resistant
	Wine	Resistant
Food stuffs and beverages	Strong liquors	Resistant (upto 3 months)
	Fruit Juices	Resistant
	Molasses	Resistant

¹Chemical resistance as per ASTM D 543 of specimen cured at 25°C for 7 days. Chemical resistant data with one year immersion in selected reagents were presented in above table.

Processing

Surface preparation: The adherents must be thoroughly degreased with a good degreasing solvent (e.g. toluene, acetone trichloroethylene) and abraded with coarse emery paper or chemically etched. Inadequately pre-treated substrates may not bond satisfactorily.

Application: The mixed mass is coat by brush, roller or spray. The mix must be used within its pot life. Mix mass should be poured into flat or open trays to maximize working time.

Curing: Curing normally takes place at room temperature within about 24 hours depending on the ambient temperature but may be accelerated by the application of heat.

Packaging

Lapox B-47, Lapox K-41 and Lapox K-42 are available in 200 kg carboy. Other packing may be considered on request.

Storage and handling

Lapox B-47, Lapox K-41 and Lapox K-42 should be stored in a cool and dry place, preferably in a sealed container and should not be exposed to direct sunlight. Lapox B-47 has shelf-life of at least two years while Lapox K-41 and Lapox K-42 has shelf-life of one year, if stored in its original container between 2°C and 40°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, it 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.

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Note Lapox® is a registered trademark of Atul Ltd.

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