# LAPOX<sup>®</sup> ARB-26 | AH-416 Technical Data Sheet | Polymers Business



### Ambient cure flooring system for glossy finish

Description Lapox ARB-26 is reactive diluent modified epoxy resin based on bisphenol-A. It	,
white, low viscous liquid. Lapox AH-416 is clear transparent, low viscosity mo	odified cycloaliphatic
amine curing agent. When both components are mixed in recommended ratio,	, cured films exhibits
excellent gloss and free from various defects like fish eyes, craters and air	ir bubbles. Low mix
viscosity of system permits high filler loading, good wetting and leveling properti	ies, high mechanical
and resistant to mild acids and alkalis.	

Advantages	Defect free flooring
	Excellent glossy finish
	Low mix viscosity
	Resistant to amine blush

#### Applications Clear coatings Decorative floor coatings Laminations Maintenance coatings

## **Typical specifications**

Test	Unit Reference	Poforonoo	Value	
Test		Reference	Resin	Hardener
Description	-	Visual	Milky white liquid	Clear liquid
Colour	GS	ASTM D1544	-	Max 1
Viscosity at 25°C <sup>1</sup>	m Pas	ASTM D2196	450 - 750	400 - 800
Epoxy value	Eq/kg	ASTM D1652	4.87 - 5.2	-
Amine value	Eq/kg	ASTM D2073	-	250 - 300
Density	g/cc	ASTM D792	1.14 - 1.15	0.97 - 0.99
<sup>1</sup> Viscosity by Brookfield vi	scometer			

### **Mix specifications**

Test	Unit	Reference	Value
Mixing ratio (resin : hardener)	By weight	-	100 : 60
Mix viscosity at 25°C	m Pas	ASTM D2196	400 - 600
Specific gravity (mix mass)	-	-	1.08 - 1.10
Pot life at 25°C1	Minutes	ASTM D2471	60 - 70
Peak exotherm temperature <sup>2</sup>	°C	-	Max 140
Surface dry <sup>3</sup>	Minutes	ASTM D5895	100 - 120
Touch dry <sup>3</sup>	Minutes	ASTM D5895	300 - 320

 $^1\text{Pot}$  life of 100 g mix mass at 25  $\pm$  1°C in plastic disposable cup by 'Gardco' gel timer

<sup>2</sup>Total 100 g mix mass at 25± 1°C in plastic disposable cup by Temperature data logger

<sup>3</sup>Drying time of 200 micron film on glass plate at 25± 1°C

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After cure specifications	Test	Unit	Reference	Value	
	<sup>1</sup> Hardness	Shore D	ISO 868	70 - 75	
	Water absorption (24 hours immersion <sup>1</sup> Hardness checked for 20 mm casting, after 24	*	ISO 62	Max 0.5	
Recommended formulation for self-	Component	Unit	Self-lev	Self-leveling	
	Resin, Lapox ARB-26	Parts by weight	100		
leveling floor	Hardener, Lapox AH-416	Parts by weight	60		
	Quartz sand 300µ	Parts by weight 200 -		50	
	Silica floor, 300 mesh	Parts by weight	Parts by weight 140 - 160		
	Specific gravity	-	1.7		
	Consistency of mix mass	-	Flowabl	e	
	Compressive strength, after 7 days	kg/cm <sup>2</sup>	450 - 50	00	
	Area coverage	kg/m² per mm	2.0 - 2.5	5	
Application procedure for self-leveling floor	Ensure concrete surface is dry, clean concrete must be cured for at least 28 Remove loose particles and dust by w Prior to the application of self-levelling epoxy primer system Lapox B-47 and Prepare mixer as per above guideline	days. ire brush or any suita g epoxy flooring, it is Lapox AH-713. formulation. Mixing is	able mechanical too s advisable to seal s critical and must t	ols. the concrete pores by be accurate	
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Storage and handling	Lapox ARB-26 and Lapox AH-416 should be stored in a cool and dry place, preferably in a sealed container and should not be exposed to direct sunlight. Lapox ARB-26 has shelf-life of at least two years while Lapox AH-416 has shelf-life 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.
Contact	E-mail: polymers@atul.co.in Website: www.atul.co.in
Note	Lapox <sup>®</sup> is a registered trademark of Atul Ltd.

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