

Ambient cure flooring top coat for glossy finish

Description	Lapox ARB-22 is reactive diluent modified epoxy resin based on bisphenol-A. Lapox AH-416 is clear transparent, low viscosity modified cycloaliphatic amine curing agent. When both components are mixed in recommended ratio, it provides high gloss that are resistant to various chemicals. Low mix viscosity of system permits high filler loading and exhibit outstanding mechanical and chemical resistant properties.				
Advantages	Excellent glossy finish Good chemical resistance Good resistance to amine blush Light colour Low mix viscosity				
Applications	Clear coatings Decorative floor coatings Laminations Maintenance coatings				
Typical specifications	Test	11-14	Deferrer		Value
	Test	Unit	Reference	Resin	Hardener
	Description	-	Visual	Clear liquid	Clear liquid
	Colour	GS	ASTM D1544	Max 1	Max 1
	Viscosity at 25°C ¹	m Pas	ASTM D2196	800 - 1200	400 - 800

¹ Viscosity by	Brookfield	viscometer

Epoxy value

Amine value

Density

Mix specifications

Test	Unit	Reference	Value
Mixing ratio (resin : hardener)	By weight	-	100 : 60
Mix viscosity at 25°C	m Pas	ASTM D2196	600 - 800
Specific gravity (mix mass)	-	ASTM D792	1.08 - 1.10
Pot life at 25°C1	Minutes	ASTM D2471	50 - 60
Peak exotherm temperature ²	°C	-	Max 140
Surface dry ³	Minutes	ASTM D5895	100 - 120
Touch dry ³	Minutes	ASTM D5895	300 - 320

ASTM D1652

ASTM D2073

ASTM D792

4.9 - 5.2

1.13 - 1.16

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250 - 300

0.97 - 0.99

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

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

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

Eq/kg

Eq/kg

g/cc

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After cure specifications	Test	Unit	Reference	Value	
	Hardness ¹	Shore D	ISO 868	70 - 75	
	Water absorption (24 hours immersion)	%	ISO 62	Max 0.5	
	Optical clarity	-	Visual	Excellent	
	¹ Hardness checked for 20 mm casting, after 24 hours	curing			
Recommended formulation for self-	Component	Unit	Self-lev	Self-leveling	
leveling floor	Resin Lapox ARB-22	Parts by weight	100		
	Hardener Lapox AH-416	Parts by weight	60		
	Defoamer K - 210	Parts by weight	1 - 2		
	Quartz sand 300µ	Parts by weight	200 - 25	0	
	Silica floor, 300 mesh	Parts by weight	140 - 16	0	
	Specific gravity	-	1.70		
	Consistency of mix mass	-	Flowable	e	
	Compressive strength, after 7 days	kg/cm ²	450 - 50	0	
	Area coverage	kg/m ² per mm	2.0 - 2.5		
Application procedure for self-leveling floor	Ensure concrete surface is dry, clean an concrete must be cured for at least 28 da Remove loose particles and dust by wire Prior to the application of self-levelling e	ys. brush or any suita poxy flooring, it is	able mechanical too	ls.	
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air

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Packaging	Lapox ARB-22 and Lapox AH-416 is available in 200 kg carboy. Other packing may be considered on request.
Storage and handling	Lapox ARB-42 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, air and excessive heat. Lapox ARB-42 has shelf-life of at least two years while Lapox AH-416 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.
Contact	E-mail: polymers@atul.co.in Website: www.atul.co.in
Note	Lapox [®] is a registered trademark of Atul Ltd.

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