

Ambient cure low viscous epoxy primer system

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Excellent adhesion **Advantages** Good chemical resistance Very low shrinkage

Applications	Primer, mortar and screed
	Self-leveling floors
	Sealing of cracks in concrete structure

Typical specifications

Test	Unit R	Reference	Value	
Test	Unit		Resin	Hardener
Description	-	Visual	Clear liquid	Yellow brown liquid
Colour	GS	ASTM D1544	Max 1	Max 8
Viscosity at 25°C1	m Pas	ASTM D2196	450 - 650	500 - 1,000
Epoxy value	Eq/kg	ASTM D1652	5.2 - 5.50	-
Amine value	Eq/kg	ASTM D2073	-	425 - 450
Density	g/cc	ASTM D792	1.15 - 1.17	0.96 - 0.98
¹ Viscosity by Brookfield vi	scometer			

Value

Mix specifications

Test	Unit	Reference	Value
Mixing ratio (resin : hardener)	By weight	-	100 : 50
Mix viscosity at 25°C	m Pas	ASTM D2196	500 - 700
Specific gravity (mix mass)	-	-	1.05
Pot life at 25°C1	Minutes	ASTM D2471	140 - 180
Peak exotherm temperature ²	°C	ASTM D2471	100 - 120
Surface dry ³	Hours	-	2 - 3
Touch dry ³	Hours	-	4 - 6

¹Pot life of 100 g mix mass at 25 ± 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 30°C

LAPOX[®] B-47 | AH-714 Technical Data Sheet | Polymers Business



Recommended	Component	Unit	Grouting
formulation and performance	Resin Lapox B-47	Parts by weight	100
specifications for primer	Hardener Lapox AH-714	Parts by weight	50
	Accelerator Lapox AC-14	Parts by weight	1 - 5
	Specific gravity of mix	-	1.10
	Consistency of mix mass	-	Flowable
	Area coverage	g/m²	220 - 230
Application procedure for primer	 Ensure concrete surface is dry, clean and fr Remove loose particles and dust by Wire Bru Mix Resin and Hardener in specified proport Apply mix mass uniformly in thin layer on sul If required apply second coat after 3 to 4 hou The subsequent coats (Top coats) can be ap it just tacky 	ush or any suitable mechan ion in disposable bowl thor ostrates with help of brush, urs of first coat application	nical tools oughly , spreader or roller
Application procedure for Crack filling and Repairs	Ensure concrete surface is dry, clean and free from oil, grease and other contaminants Remove loose particles and dust by Wire Brush or any suitable mechanical tools Mix Resin and Hardener in specified proportion in disposable bowl thoroughly If cracks are minor (< 2 mm) and concrete has not lost its integrity, then sealing of cracks can be done with epoxy system by means of gravity method If cracks are in the magnitude of >2mm width, then crack must be open by making 'V' grove and through cleaning by compressed air to remove dirt. Mix Resin and Hardener thoroughly followed by addition of quartz sand to achieve homogeneous consistency. Pour the mixer into cracks Allow to cure for minimum 7 days for optimum results.		cal tools ughly sealing of cracks can be by making 'V' grove and lener thoroughly followed
Injection Grouting	 Ensure that the surface of concrete structure I concrete Insert PVC nozzles at the two ends of cracks a Mix Lacrete Resin and Hardener in specified p Fill up mix mixture into Injection Grouting Gur of 7 to 8 bar. The material will fill up in all cav crack is completely filled Allow to cure for minimum 7 days for optimum 	and fix well using Lapox Ul proportion in disposable bo n and inject the material in vities and will come out fro	traseal wl thoroughly the nozzle at a pressure



Application procedure for bonding old to new concrete	 Ensure concrete surface is dry, clean and free from oil, grease and other contaminants Remove loose particles and dust by Wire Brush or any suitable mechanical tools Mix Resin and Hardener in specified proportion in disposable bowl thoroughly Apply thin coat of epoxy Resin and Hardener mix on surface of old concrete by brush, spreader or roller. Allow to cure for 3 to 4 hours. If first coat absorbed significantly, apply second coat after 3 to 4 hours Allow to cure for 6 - 8 hrs. When epoxy coat is just tacky, apply new concrete at this stage 		
	Troubleshooting Problem	Cause	
	Uncured after 24 hours to 48 hours	Wrong mix ratio and or low ambient temperature	
	Sticky greasy hazy surface	High humidity	
	Air bubbles are entrapped	Mixing was too fast and did not have time to release air	
Packaging	Lapox B-47 and Lapox AH-714 is available in 200 kg carboy. Other packing may be considered on request.		
Storage and handling	Lapox B-47 and Lapox AH-714 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 two years while Lapox AH-714 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 A	tul Ltd.	
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