# LAPOX<sup>®</sup> MARBOBOND CLEAR

Technical Data Sheet | Polymers Business



## Ambient cure low viscous system

Description	Italian and other marble the marble. The syste properties into cracks f	es. The syste om is room for marbles a emperature	m after curing gi temperature cur and granites. Fas between 40°C a	ves an excellent ing, low viscous ster productivity	stem suitable for treatment of gloss by polishing surface of s and has good penetrating can be achieved, if curing is ng at higher temperature is
Applications	Filling and coating of Ita	lian marbles	and granites		
Advantages	Good colour stability Good penetrating power High gloss Low shrinkage System can be pigment Thermally stable and su Water and chemical res	ed itable to perf	orm in extreme ca	onditions	
Typical specifications	Test	L Incid	Reference	Value	
		Unit		Resin	Hardener

			Resin	Hardener
Description	-	Visual	Clear, transparent liquid	Clear, transparent liquid
Viscosity at 25°C1	m Pas	ASTM D2196	1,800 - 2,400	Max 12
Colour	APHA	ASTM D1209	Max 60	Max 40
Specific gravity	-	-	1.00 - 1.20	0.90 - 0.95
1) /icoccity by Prockfield viscor	motor			

<sup>1</sup>Viscosity by Brookfield viscometer

Test	Unit	Reference	Value
Mixing ratio (resin : hardener)	w/w	-	100 : 30
Mix viscosity at 25°C	m Pas	ASTM D2196	500 - 600
Pot life <sup>1</sup>	Minutes	ASTM D2471	80 - 100
Peak exotherm temperature <sup>2</sup>	°C	-	Max 60
Surface dry*	Minutes	ASTM D5895	220 - 260
Touch dry*	Minutes	ASTM D5895	360 - 400

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

<sup>2</sup>Total 100 g mix mass in plastic disposable cup at 25°C

\*Drying time of 200 micron film on glass plate at 42  $\pm$  0.5°C

### After cure specifications

**Mix specifications** 

Test	Unit	Reference	Value
Hardness <sup>1</sup>	Shore D	ISO/ R868	70 - 75
Water absorption (24 hours immersion)	%	ASTM D670-63	Max 0.5
Optical clarity	Visual	-	Excellent
Tg, RT curing, 24 hours <sup>2</sup>	°C	DSC	45 - 50
Tg, potential <sup>2</sup>	°C	DSC	70 - 75

<sup>1</sup>Hardness checked for 10 mm casting, after 24 hours curing

<sup>2</sup>Tg (Glass transition temperature) development behavior

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#### Processing

**Surface preparation:** Clean thoroughly the crack area on marbles. Ensure the surface is free from the dirt, oil, grease and moisture. Wipe off the surface of the marble with clean cloth. Inadequately pre-treated substrates may not show satisfactory results.

### Application

**Crack filling:** Take resin and hardener as per mentioned ratio, mix thoroughly. Take it in dispensing bottle, dispense the mix over cracks. Pigmentation can be done by adding suitable pigment.

**Micro** | hair line crack treatment: Take resin and hardener in above mentioned ratio, mix thoroughly and apply the mix over complete surface of marble with the help of metal spatula. Apply as many coats as required, depending upon the nature of cracks on the surface. Allow to cure in day light for 24 hours. The excess material can be grinded and removed from the surface of the substrate. Excessive humidity (above ~65%), low daylight and low temperature (less than 20°C) may retard the cure. The Lapox Marbobond Clear system will not work effectively in the monsoon season.

**Polishing of marbles and granites:** It can be done after 24 hours to 30 hours from the time of Lapox Marbobond Clear application on surface.

	Troubleshooting Problem	Cause	
	Uncured after 24 hours to 48 hours	Wrong mix ratio and   or low ambient temperature	
	Sticky   greasy   hazy surface	High humidity	
Packaging	Lapox Marbobond Clear is available in packing may be considered on request.	1.3 kg bottles, 4 kg and 12 kg HDPE jerry cans. Other	
Storage and handling		d in a cool and dry place, preferably in a sealed container ight. This product has a shelf life of one year, if stored in its away from humidity and excessive heat.	
Safety	contact and irritation, it should be was	PE). Avoid contact with the eyes and skin. In case of direct shed off immediately with soap and warm water. Avoid efer to the Safety Data Sheet (SDS) of Lapox Marbobond	
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: support_ polymers@atul.co.in Website: www.atul.co.in		
Note	Lapox® is a registered trademark of Atul I	Ltd.	

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