

Ambient cure low viscous system

Description

Lapox Marbobond - HP is two component modified, epoxy solvent based system suitable for treatment of sandstone and low density marbles. The system gives an excellent gloss after polishing surface of the marble. The system is room temperature curing, low viscous and has good penetrating properties into cracks in marble and granite. Faster productivity can be achieved, if curing is performed at higher temperature between 40°C and 60°C. Curing at higher temperature is recommended to achieve optimum performance.

Applications

Filling and coating of sandstone and low density marbles

Advantages

Good colour stability
Good penetrating power into cracks
Low shrinkage and system can be pigmented
Thermally stable and suitable to perform in extreme conditions
Water and chemical resistant

Typical specifications

Test	Unit	Reference	Value	
			Resin	Hardener
Description	-	Visual	Clear, transparent liquid	Pale-yellow liquid
Viscosity at 25°C ¹	m Pas	ASTM D2196	800 - 1,600	10 - 25
Colour	APHA	ASTM D1209	Max 80	-
Colour	GS	ASTM D1544	-	Max 4
Specific Gravity	-	-	1.00 - 1.05	0.90 - 0.95

¹Viscosity by Brookfield viscometer

Mix specifications

Test	Unit	Reference	Value
Mixing ratio (resin : hardener)	w/w	-	100 : 50
Mix viscosity at 25°C	m Pas	ASTM D2196	100 - 200
Pot life ¹	Minutes	ASTM D2471	65 - 85
Peak exotherm temperature ²	°C	-	Max 100
Surface dry*	Minutes	ASTM D5895	70 - 80
Touch dry*	Minutes	ASTM D5895	110 - 130

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

²Total 100 g mix mass in plastic disposable cup at 25°C

*Drying time of 200 micron film on glass plate at 42 ± 0.5°C

After cure specifications

Test	Unit	Reference	Value
Hardness ¹	Shore D	ISO/ R868	65 - 70
Water absorption (24 hours immersion)	%	ASTM D670-63	Max 0.4

¹Hardness checked for 10 mm casting, after 24 hours curing

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 - HP 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 - HP 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 - HP is available in 1.5 kg bottles, 7.5 kg and 45 kg HDPE carboys. Other packing may be considered on request.

Storage and handling

Lapox Marbobond - HP should be stored in a cool and dry place, preferably in a sealed container and should not be exposed to direct sunlight. This product has a shelf life of one year, if stored in its original container between 2°C and 40°C away from humidity and excessive heat.

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 Safety Data Sheet (SDS) of Lapox Marbobond - HP 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

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Note

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