



# KalingaStone®

TERRAZZO, MARBLE & QUARTZ

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## Installation Guidelines (Adhesive System) for Kalingastone Engineered Marble in Wall Cladding [Only Interior Applications]

Standard Size of Marble	Thickness	Recommended Sizes of Marble
3040 mm x 1250 mm	20mm	1013 mm x 1250 mm (3'4"x 4' ) approx..
(10' x 4' approx.)	18 mm	1013 mm x 1250 mm (3'4"x 4' ) approx..
	15 mm	1013 mm x 1250 mm (3'4"x 4' ) approx..
	15 mm	760 mm x 1250 mm ( 2'6" x 4' ) approx..
	12 mm	304 mm x 312 mm ( 1' x 1' ) approx..
	12 mm	304 mm x 625 mm (1' x 2') approx..
	12 mm	506 mm x 625 mm (1'8" x 2' ) approx..
	12 mm	506 mm x 417 mm) (1'8" x 1'4") approx
	12 mm	608 mm x 625 mm ( 2' X 2' ) approx..

Standard Size of Marble	Thickness	Recommended Sizes of Marble for International Market
3040 mm x 1250 mm	20 mm	(a) 600 mm x 600 mm / (b) 600 mm x 1200 mm / (c) 1200 mm x 1200 mm
(10' x 4' approx.)	18 mm	(a) 600 mm x 600 mm / (b) 600 mm x 1200 mm / (c) 1200 mm x 1200 mm
	15 mm	(a) 600 mm x 600 mm / (b) 600 mm x 1200 mm / (c) 1200 mm x 1200 mm

## **Adhesive System for Installation of Kalingastone Engineered Marble in Wall Cladding [Only Interior Applications]:**

- It is advisable not to stack Kalingastone Engineered Marble slabs under direct Sunlight. The marble slabs should be stacked in covered shed only.
- It is advisable to inspect the shade, color, design etc. by removing the plastic surface protection sheet from engineered marble slab and check the shade before you start cutting.
- We recommend using water liberally while cutting to avoid burning and chipping of Engineered Marble slabs.
- It is advisable to clean the sides of Engineered Marble with a polish paper just before laying as it will remove dust and smoothen the sides for a better installation.
- All cementitious surfaces shall be allowed to adequately cure and dry properly as per standard practice. All surfaces shall be plumb in line, free from defects / undulations. Installation shall be made on a dry surface.
- Apply adhesive conforming to IS 15477: 2019 Type 4 Indian Standard / C2TES2 conforming to EN 12004: 2017 standard, which is a highly deformable (S2), improved (2), slip resistant (T), cementitious adhesive (C), with extended open time (E).
- For adhesive paste preparation, add Adhesive powder to clean water. Mix thoroughly until a lump-free mortar is obtained using stirrer mixer. A 50 kg bag will require approx. 11.25 – 12 litres of water in the ratio of 1: 4.4 (water: powder). No further water should be added to obtain a slump-free consistency. The adhesive paste is immediately ready-for-use and has a pot life of 3 hours while lying inside bucket after mixing. Consumption of material will be approx. 1.2 kg / Sqm / mm.
- Make sure not to keep excess water in the adhesive paste, because too much water in the adhesive will weaken bond of Marble with sub-base.

- **Comb the adhesive paste to the required depth using 12 mm square notched trowel to maintain the specified bed thickness up to 5 – 6 mm. Simultaneously apply a thin layer of adhesive paste on back of Engineered Marble ensuring better bonding.**
- **Make sure not to spread more adhesive than that needed to lay Engineered Marble within a 15 minute period. Marble piece can be adjusted up to 25 minutes after fixing.**
- **Engineered Marble shall be installed with slight twisting action, making sure that complete bonding (100 % bonding) is achieved.**
- **We recommend to use a rubber hammer only to press the Engineered Marble ensuring that there is left no hollowness beneath Marble.**
- **Immediately remove any excess adhesive paste coming out through the joints with a damp cloth or sponge before it starts to set.**
- **The joints in between the Engineered Marble pieces should not be filled immediately on its installation and instead should be left open for a minimum of 3 - 4 days to allow excess moisture to evaporate.**
- **Preferably after four days, the joints will be properly cleaned once again before grouting.**
- **White cement or white cement based grouts should not be filled in the joints. Only epoxy should be filled.**
- **The joints will be filled with Resin T 8 of Tenax / Equivalent by adding Engineered Marble powder of particular variety (i.e. a uniform paste of transparent resin of T8 + marble powder will be initially prepared and thereafter hardener will be added to said paste in parts). The excess epoxy lying on the joints should be cleaned immediately.**
- **Lamination film should be removed from surface of Engineered Marble, the very next day of installation.**
- **It must be ensured that POP must not come in direct contact with Engineered Marble during / post installation.**
- **When installing the Kalingastone Engineered Marble at height of more than 20', suitable clamps shall be used along with adhesive as per safety norms.**
- **Maintain 10 mm wide joint horizontally at every 10' height and shall be filled with Silicone Sealant / suitable flexible sealant.**
- **Apply PU Adhesive in compliance with EN 12004 (R2T ), which is an improved (2) reaction adhesive (R) and slip resistant (T)] for surface of Marine Plywood / Bison Panel etc..**
- **Avoid using Araldite / Cementitious adhesive for installation of Engineered Marble on Plywood / Bison Panel surface.**

- For care and maintenance, it is advisable to use only a neutral pH cleaner (pH=7). Kindly ensure that any acidic / alkaline cleaner should not be used on marble surface.

**Note :-**

**(A) We don't recommend installation of Kalingastone Marble for exterior wall cladding with adhesive / cement mortar.**

**(B) Kalingastone Marble is recommended to be used with antique finish\* (Honed / Leather / Silken finish) in exterior adopting dry cladding system only. [\*We recommend to use stone sealer as there may be a gradual fading when exposed to Sunlight.]**