



## Installation Guidelines (Adhesive System) for Kalingastone Engineered Marble in Wall Cladding

<b>Standard Size of Kalingastone Engineered Marble</b>	<b>Thickness</b>	<b>Recommended Sizes of Kalingastone Engineered Marble</b>
3040 mm x 1250 mm	18 mm	1520 mm x 1250 mm ( 5' 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..

## **Adhesive System for Installation of Kalingastone Engineered Marble in Wall Cladding :**

- 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 Type 2 Adhesive as per IS 15477 : 2004 Indian Standard / C2TES1 conforming to EN 12002 standard. (The details of duly recommended adhesives of various suppliers is attached herewith).
- 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 Terrazzo 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.
- Use two component flexible adhesive\* for installation of Engineered Marble on 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.

## Various Adhesive Co.'s Grade for Kalingastone Engineered Marble in Wall Cladding (For Cement-Sand Plaster / RCC surface)

1.	Kalingastone Engineered Marble - <b>For Interior-</b> for Wall Cladding	(A) KeraKoll : <b>For Interior</b> : H40 No Limits White & To add 50% Top Latex and 50% water for mixing H40 No Limits for big format stones	(B) Ardex Endura : <b>For Interior</b> :: Under Tile & Stone Primer + Ardiflex S1 / Or Diamond Star White + Admix Ad1	(C) Mapei : <b>For Interior</b> : Keraflex Maxi S1/ (Kerabond T + Isolastic)	(D)MYK Laticrete : <b>For Interior</b> : PUA 212	(E) Saint-Gobain Weber : <b>For Interior-</b> Weber.set ultra
2.	Kalingastone Engineered Marble - for external use for Wall Cladding	(A) KeraKoll : <b>For External Area</b> : Superflex Eco	(B) Ardex Endura : <b>External Area</b> : Under Tile & Stone Primer + Ardiflex S1 / Or Diamond Star White + Admix Ad1	(C) Mapei : <b>For Exterior</b> : Keralastic T (PU based adhesive with 100% bonding)	(D) MYK Laticrete : <b>For External Area</b> : PUA 212	E) Saint-Gobain Weber : <b>For Exterior-</b> Weber.set ultra
3.	Kalingastone Engineered Marble - <b>For Interior-</b> for Wall Cladding	(A) KeraKoll : <b>For Interior</b> : H40 No Limits White & To add 50% Top Latex and 50% water for mixing H40 No Limits for big format stones	(B) Ardex Endura : <b>For Interior</b> :: Under Tile & Stone Primer + Ardiflex S1 / Or Diamond Star White + Admix Ad1	(C) Mapei : <b>For Interior</b> : Keraflex Maxi S1/ (Kerabond T + Isolastic)	(D)MYK Laticrete : <b>For Interior</b> : PUA 212	(E) Saint-Gobain Weber : <b>For Interior -</b> Weber.set ultra
4.	Kalingastone Engineered Marble - <b>For Exterior-</b> for Wall Cladding	(A) KeraKoll : <b>For External Area</b> : Superflex Eco	(B) Ardex Endura : <b>External Area</b> : Under Tile & Stone Primer + Ardiflex S1 / Or Diamond Star White + Admix Ad1	(C) Mapei : <b>For Exterior</b> : Keralastic T (PU based adhesive with 100% bonding)	(D) MYK Laticrete : <b>For External Area</b> : PUA 212	E) Saint-Gobain Weber : <b>For Exterior-</b> Weber.set ultra

PS : \*Adhesive for surface of Marine Plywood / Bison Panel etc.[Keralastic T of Mapei / Superflex of KeraKoll / PUA 212 of MYK Laticrete / Flex of Ardex Endura / Weber.Fix Dry Wall of Saint-Gobain Weber]