



KalingaStone[®]
TERRAZZO, MARBLE & QUARTZ

Updated Version : 18.05.2024

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

Standard Size of Kalingastone Engineered Quartz	Thickness	Recommended Sizes of Kalingastone Engineered Quartz
3150 mm x 1450 mm	20 mm	1050 mm x 1450 mm (3'5" x 4'9") approx.
(10'4" x 4'9") approx..	20 mm	1050 mm x 725 mm (3'5" x 2'4") approx.
	20 mm	787 mm x 725 mm (2'7" x 2'4") approx.
	15 mm	1050 mm x 725 mm (3'5" x 2'4") approx.
	15 mm	787 mm x 725 mm (2'7" x 2'4") approx.

Standard Size of Kalingastone Engineered Quartz	Thickness	Recommended Sizes of Kalingastone Engineered Quartz for International Market
3150 mm x 1450 mm	20 mm	(a) 700 mm x 700 mm / (b) 720mm x 720 mm /
(10'4" x 4'9") approx	15 mm	(a) 700 mm x 700 mm / (b) 720 mm x 720 mm /

Adhesive System for Kalingastone Engineered Quartz Wall Cladding [Only Interior Applications] :

- It is advisable not to stack Engineered Quartz slabs under direct Sunlight. The Engineered Quartz 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 Quartz slab and check the shade before you start cutting.
- We recommend using water liberally while cutting to avoid burning and chipping of Engineered Quartz slabs.
- It is advisable to clean the sides of Engineered Quartz slab 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.
- We do not recommend to lay Engineered Quartz slab with cement in wall cladding.
- Use only prescribed adhesives conforming to IS 15477 : 2019, Type 4 / C2 TE S2 conforming to EN 12004: 2017, which is a highly deformable (S2), improved (2), slip resistant (T), cementitious adhesive (C), with extended open time (E) for cementitious substrate OR PU Adhesive conforming to IS 15477:2019, Type 5 / EN 12004: 2017 as R2T, which is an improved (2) reaction adhesive (R) and slip resistant (T) for substrates of Plywood / Bison Panel etc.].
- For cementitious 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 Engineered Quartz 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 Quartz slab ensuring better bonding.**
- **Make sure not to spread more adhesive than that needed to lay Engineered Quartz within a 15 minutes period. Engineered Quartz slab can be adjusted up to 25 minutes after fixing.**
- **Kalingastone Engineered Quartz slab 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 Quartz stone ensuring that there is left no hollowness beneath quartz stone being laid.**
- **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 quartz stone 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 Akemi Marble Filler (1000 Transparent Waterclear L-Special) / Equivalent by adding quartz powder of particular variety (i.e. a uniform paste of transparent resin + quartz powder will be initially prepared and thereafter hardener will be added to said paste in parts). The excess paste lying on the joints should be cleaned within 10-15 minutes using a sharp knife.**
- **Lamination film should be removed from surface of Engineered Quartz, the very next day of installation.**
- **It must be ensured that POP must not come in direct contact with Engineered Quartz during / post installation.**
- **When installing the Engineered Quartz 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 Quartz on Plywood / Bison Panel surface.**
- **Engineered Quartz can not be re-polished. Only edges of Quartz slabs should be polished to get desired finish.**
- **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 quartz surface.**

Note :-

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

(B) Kalingastone Quartz 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.]