



Installation Guidelines (Adhesive System) for Kalingastone Engineered Quartz in Flooring

| Standard Size of Kalingastone Engineered Quartz | Thickness | Recommended Sizes of Kalingastone Engineered Quartz |
|---|-----------|---|
| 3150 mm x 1450 mm (10'4" x 4'9") approx. | 20 mm | 1575 mm x 1450 mm (5'2" 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. |

Various Adhesive Co's Grade for Kalingastone Engineered Quartz in Flooring

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|----|--|--|---|--|--|---|
| 1. | Kalingastone Engineered Quartz - For Interior- for Flooring | (A) KeraKoll : For Interior : H40 No Limits White & To add 50% Top Latex and 50% water for mixing H40 No Limits for big format stones | (B) Ardex Endura : For Interior :: Under Tile & Stone Primer + Ardiflex S1 | (C) Mapei : For Interior : Keralastic T (PU based adhesive with 100% Bonding) | (D)MYK Laticrete : For Interior : PUA 212 | E) Saint-Gobain Weber : For Interior - Weber.set ultra |
| 2. | Kalingastone Engineered Quartz - for external use for Flooring | (A) KeraKoll : For External Area : Superflex Eco | (B) Ardex Endura : External Area : Under Tile & Stone Primer + Ardiflex S1 | (C) Mapei : For Exterior : Keralastic T (PU based adhesive with 100% bonding) | (D) MYK Laticrete : For External Area : PUA 212 | E) Saint-Gobain Weber : For Exterior - Weber.set ultra |

Adhesive System for Kalingastone Engineered Quartz in Flooring :

- It is advisable not to stack Kalingastone Engineered Quartz slabs under direct Sunlight. The 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 / dirt and smoothen the sides for a better installation.
- As per site requirement, a well leveled, properly compacted, adequately cured and completely dried PCC sub-base should be prepared.
- The PCC sub-base should be properly cleaned and made free from dust, dirt, oil, grease etc. at the time of installation of Engineered Quartz slab.
- It is advisable not to lay Kalingastone Engineered Quartz with cement. Use only prescribed adhesives i.e. Type 2 Adhesive conforming to IS 15477 : 2004 of 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 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 slab within a 15 minutes period. The 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 slab ensuring that there is left no hollowness beneath Quartz slab being laid.
- Immediately remove any excess adhesive paste coming out through the joints with a damp cloth or sponge before it starts to set.

- Ideally the Engineered Quartz flooring should have 2 - 3 mm wide joints, which is international best practice. However, if the client wants to have a seamless joint for smaller areas, then we recommend to have approx. 10 mm gap below skirting with a provision of backer rod below skirting.
- The joints in between the Engineered Quartz 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 quartz powder of particular variety (i.e. a uniform paste of transparent resin of T8 + quartz 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.
- We recommend to provide approx. 10 mm wide gap below skirting to accommodate thermal expansion of the product. Immediately remove excess adhesive paste from gap below skirting.
- We recommend to insert a suitable backer rod of bigger size (say 12 – 15 mm dia.) in said gap of 10 mm width below skirting so that it is tightly fitted.
- Keep 6 mm wide expansion joint after every two pieces on both sides (i.e. along Length & Breadth), when Kalingastone Engineered Quartz is being laid in a large expanse like shopping mall, lobby area etc.
- Fill the expansion joint with Silicone High Performance Sealant of Dow Corning / Akemi. After filling Silicone Sealant, a drying period of 4 to 5 days is a must.
- Lamination film should be removed from surface of Engineered Quartz, the very next day of installation.
- The Engineered Quartz flooring should be covered with thick PVC sheets ensuring that no dust / dirt etc. should be left on the Quartz flooring before covering with said PVC sheets.
- 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.
- Kalingastone Engineered Quartz can not be re-polished. Only edges of Engineered 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 Engineered Quartz surface.