

Comparision Chart Between Kalingastone Engineered Marble v/s Natural Marble

| TEST STANDARDS | KALINGASTONE ENGINEERED MARBLE | NATURAL MARBLE |
|---|---|---------------------------|
| Specific Density / (ASTM C 97) | (2.40 – 2.55) Kg/dm ³ | 2.59 Kg/dm ³ |
| Water Absorption / (ASTM C 97) | < 0.10 % | (0.15 - 0.2) % |
| Flexural Strength / (ASTM C 880) | (25 – 35) Mpa | (7 - 12) Mpa |
| Compressive Strength / (ASTM C 170) | (110 – 150) Mpa | (60 - 90) Mpa |
| Surface Hardness / (EN 101) | (4 – 5) Moh's | (2.5 – 5) Moh's |
| Abrasion Resistance / (ASTM C 241 / ASTM C 1353) | (10 – 20) Ha | (2 - 8) Ha |
| Modulus of Rupture / (ASTM C 99) | (25 - 35) Mpa | (7 - 12) Mpa |
| Glossiness Reflection | ➤ 85 % | (80 - 85) % |

Difference Between Kalingastone Engineered Marble and Others

| Sl. No. | Kalingastone | Others |
|---------|--|--|
| 1. | <p>We use pure White Imported Marble powder from Vietnam / Makrana with high CaCO₃. Content of minimum 95% and above.</p> <p>Benefit : High CaCO₃ gives more strength to the marble and also gives very high gloss polish.</p> | <p>Others are using Local Dolomite,s which has less calcium content – CaCO₃ of 40-50% or Less.</p> <p>As CaCO₃ is less, the strength of the marble will be much less, polish also will be much less and dull. Also chances of crack developing are higher.</p> |
| 2. | <p>We are using imported Polyester Resin from Polychem – Dubai / others, which is made from High grade international raw material.</p> <p>Benefit : Resin is the most important raw material, as it will bind the product and hold it together for years to come. Also this resin helps in giving a very high gloss and finish to the product.</p> | <p>Others are using Domestic Resin and these resin manufacturers use plastic scrap as a source of raw material.</p> <p>The bonding of the material will not be so strong and case of de-bonding and cracks developing and warping can happen.</p> |
| 3. | <p>We use Imported Pigments from Swiss / German MNC Companies like Lanxess, BASF, Ciba, Sandoz etc., which have a very high UV resistance and consistent quality.</p> <p>Benefit : Very high colour fastness and more accurate consistency in batch to batch production.</p> | <p>Others are using Domestic Pigments, which do not have a high UV resistance and consistency in supplies.</p> <p>The colour value of the product will fade faster and batch to batch variations will be gteater than normal.</p> |
| 4. | <p>We store all our marble blocks under covered shed, which makes the blocks more harder and stronger.</p> | <p>Others are storing the blocks in open area/ yard, which makes the blocks weak and prone to cracks developing.</p> |
| 5. | <p>We are having 56 head SIMEC – Italy latest state of art automatic polishing machine & using Italian abrasives to get the best results in high polish an gloss (more than 85 – 90 % gloss)</p> | <p>Others are using local Indian / Chinese polishing line with local / chinese abrasives, where you do not get the optimum results,</p> |
| 6. | <p>We have The State of Art SIMEC Italy tiles cutting line to supply to prestigious client / projects with 90% right angle accuracy. We are providing nylon protection sheet for the polished surface.</p> | <p>Others are using domestic / Chinese machines, where the accuracy is not so high.</p> |