



The attributes of apaiser's stone composite are significant. It outperforms its competition and has characteristics and performance that is noteworthy.

Additives

Engineered stone products contain numerous additives. In addition to pigments, they include UV absorbers, cross-linking agents and stabilizers. An important additive contained in all engineered stone is a catalyst – a chemical that causes the mixture to harden, or cure. The apaiser process of manufacturing is simple. A resin is mixed with the additives and fillers, and then poured into a mould. We avoid trapping air bubbles in the mix, as these cause voids in the material by adjusting the viscosity of the mixture.

Curing

Curing means allowing the chemical reactions that form the engineered stone product to be as close to 100% complete as possible, leaving a stable, inert material with all its performance properties intact. Some engineered stones cure by themselves in the open air. Others cure by being bathed in steam or heated in ovens. Many polyester resins require post-curing operations, usually through a heating-cooling cycle to increase the degree of cure. Apaiser stone composite is cured at the factory prior to sanding

Scratch-Resistance

apaiser bathware is highly resistant to abrasion. With a score of 6 to 7 on the Mohs hardness scale, and the abrasion index of 58+, apaiser bathware is ideal for bathrooms, including those subject to high traffic or heavy use.

Water absorption

Natural and synthetic materials with lower water absorption rates are easier to maintain and more resistant to stains. apaiser bathware has an absorption coefficient of 0.02%, or more than 16 times better than the minimum required to be considered 'impervious'. The best rating qualifies the material as 'impervious' and it is reached when the coefficient obtained is 0.5% or less.

Frost-Free

apaiser bathware is practically immune to freezing and thawing cycles because of its low level of water absorption. As tested, apaiser bathware has maximum water absorption of 0.02%.

Abrasion resistance

apaiser has tested the abrasion resistance of the apaiser product range and it is highly resistant to abrasion.

Stain-Proof

apaiser bathware is a non-porous material. Common spills stay on the surface and are easy to clean with regular cleaners leaving no trace of stain on the surface as tested per ASTM C-650. However, apaiser bathware is now tested to be non susceptible to nitric and hydrochloric acids and hydroxides in high concentrations when exposure does not exceed 24 hours.

Stain resistance

The inert properties of its natural components (marble, silica etc) together with its fabrication process make apaiser bathware more resistant to stains than any other competitive material.

Chemical Resistance

apaiser bathware is an ideal product for applications where chemicals and/or strong cleaning agents are used. apaiser bathware is virtually non-porous; hence it is impervious to most concentrated solutions of industrial chemicals.

Flame-spread and smoke-density tests

apaiser bathware tested for flame spread and smoke density gave a safe flame-spread coefficient of 17 by ASTM E-84 and smoke-density coefficients of 196 under 'flaming' test and 69 in a 'non-flaming' test. These tests confirm that apaiser bathware is safe in diverse residential and commercial construction environment.

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