

CONCEPT

Sand is an essential element in concrete and hence plays an important part in the construction and infrastructure industry in a modern economy. Sand is also used in metal casting, reclamation of land and other civil and military applications. Different applications require different types of sand, which is typically sourced from riverbeds and sea shores.

The depletion of natural river sand is a growing concern of this millennium. River sand mining causes far reaching ecological damage, making a compelling case for the search of viable alternatives. Rampant sand mining has led to degradation in water streams, erosion of beaches and destruction of the ground water ecosystem. River sand is a slow product of the weathering of rocks. It has taken a billion years of chemical and physical environmental weathering of rocky terrains to evolve into the sand / gravel we find on Earth's surface. Manufactured Sand is engineered sand that is produced by replicating the natural process of weathering in a controlled environment, which involves crushing rock to the required particle size and refining it to attain the properties of sand.

OUR PRODUCTS

Ultra Washed CONCRETE SAND

Ultra Washed PLASTERING SAND

In Mortar or Concrete

- **More Strength**
- **Cost Effective**
- **Widely Available**
- **Eco-Friendly**

RIVER SAND VS M-SAND

In Mortar

- Physical characteristics - shape, size, bulk density and specific gravity of manufactured sand particles are similar to those of riverbed sand.
- The improved workability of mortar with manufactured sand requires lower water to cement ratio to achieve specific flow values.
- The water retentivity value (which governs the strength and bond development) for mortar with manufactured sand is higher than mortar with riverbed sand.
- The compressive strength of mortar with manufactured sand is higher (almost double) than that of mortar with riverbed sand.
- The flexure bond strength of masonry using manufactured sand mortar is significantly higher (almost 150% increase) as compared to mortar using riverbed sand.
- The compressive strength and modulus for masonry with manufactured sand is higher (almost 30% increase) as compared to mortar with riverbed sand.

In Concrete

- Concrete with manufactured sand possesses higher compressive strength (6-9% increase) as compared to concrete with riverbed sand.
- Flexure strength of manufactured sand concrete is higher (by 12-15%) than riverbed sand concrete.





About A1 Green Sand

A1 Green Sand is Mysore based M-Sand (Manufactured-Sand) production company with its founding members having 5 decades industry experience in building materials supply chain - cement, hollow bricks, construction, manufacturing and infrastructure.

GET IN TOUCH

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**CERTIFIED
M-SAND
MANUFACTURERS**

QUALITY CERTIFIED & LAB TESTED
ULTRA WASHED M-SAND