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| MATERIALS | USES | PROPERTIES |
| Sand | Sand is very commonly used in construction, often providing bulk, strength and stability to other materials such as asphalt concrete, mortar, cement, render and screed. | Should be completely inert.Grains should be sharp, strong and angular.There should be no organic matter. |
| Cement | It is used in mortar for plastering, masonry work, pointing, etc. It is used for making joints for drains and pipes. | FinenessSoundnessConsistencyStrengthSetting Time |
| Mortar | This is a workable paste which hardens to bind building blocks such as stones, bricks and concrete masonry units, to fill and seal the irregular gaps between them, spread the weight evenly and sometimes to add decorative colours or patterns to masonry walls. | WorkabilityBondCompressive Strength |
| Bitumen | The vast majority of bitumen is used by the construction industry, as a constituent of products used in paving and roofing. Excellent waterproofing characteristics and thermoplastic behaviour make it ideal for a wide range of applications. | * Adhesion.
* Resistance to Water.
* Hardness.
* Viscosity and Flow.
* Softening Point.
* Ductility.
* Specific Gravity.
* Durability
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| Wood | n different parts of the world in the making of houses, wood is used commonly like the flooring, frames of doors and windows for its strength and internment quality. | Colour and odourSpecific GravityMoisture ContentGrainShrinkage and swelling |
| Clay | Clay is used around the world as a construction material, most commonly baked into brick or roof tiles. The relative ease with which clay can be extracted from the ground and processed – e.g. by adding water to change its shape, or increasing its strength by adding straw, sand, etc. |  |
| Rebar | Rebar, also known as reinforcement steel and reinforcing steel, is a steel bar or mesh of steel wires used in reinforced concrete and masonry structures to strengthen and hold the concrete in tension. To improve the quality of the bond with the concrete, the surface of rebar is often patterned. | ExpansionRustingGroundingLow magnetic permeability |