

FROM RUNWAYS FOR AIRCRAFTS TO PATHWAYS FOR CHILDREN TO CYCLE ON



When the need of the hour requires project to be completed on time and with the most rigorous adherence to quality standards, engineers for large infrastructure projects such as DIAL trust Robo Silicon. Over the last 17 years, we have been ensuring that only the finest ingredients go in the making of concrete that withstand the severest usage conditions, be it for landing a 20,000 tonne jetliner or a smooth ride on a 3 wheeler.

RoboAggregates are obtained by crushing of parent rock and exhibit better bonding at the interface of aggregates with cement paste. They are crushed by a three-stage configuration consisting of a Jaw Crusher followed by a Cone Crusher and finally a Vertical Shaft Impactor (VSI) to obtain aggregates that have a cubical particle shapes and are consistent in gradation.

RoboAggregates are used as a base material under foundations, roads, rail roads, landfills. These aggregates are used as a stable foundation to help prevent differential settling across various applications such as under roads, culverts, bridges, drive ways, storm drains and transformer yards.

RoboAggregates find extensive use for new infrastructure work and maintenance of existing infrastructure. RoboSand™ and RoboAggregates are used to produce PCC, RCC, normal strength or high strength concrete. They are essential components for speciality concrete applications like self-compacting concrete and pre-stressed concrete.

Get the RoboAggregates Advantage

- Good quarry source
- Perfect gradation
- Consistent quality standards
- Assured quantities

Properties

Advantages - RoboAggregates	Impact on Concrete
Cubical particle shape	High compressive strength
Internal gradation - IS 383	Reduction in voids increases workability
Surface texture	Reduction in moisture absorption/ lower water cement ratio
Greater durability	Longevity of structure/ higher resistance to an aggressive environment
Zero impurities (marine and organic)	Reduction in wastage and increase in economic value
Uncertain	On demand

! Precautions

👤 Health and Safety

- Aggregate material is non-combustible and non-explosive.
- Airborne particles may cause irritation to eye and washing with water is recommended.
- A nose mask may be worn to prevent inhaling of dust.
- The use of hand gloves is recommended for masons to prevent dry skin and discomfort.

👤 Storage and Handling

- The material at site has to be stocked in flat beds of maximum height not exceeding 1mt to maintain proper gradation and prevent down-sliding of heavier fractions to the bottom of stock pile.
- The material may be covered by tarpaulin during rainy season.

