

Strong crete

Make Concrete Better ▶▶▶

MICROSILICA

Strong
crete

StrongCrete (Microsilica)

StrongCrete Microsilica is a concrete additive for high-strength-high-performance concrete. It helps make concrete cohesive and impermeable thereby enhancing its physical as well as mechanical properties. Use of StrongCrete along with cement can also lead to greater economy and faster execution of projects. StrongCrete is a reliable, cost effective concrete additive that is designed for ease of mixing, placing and finishing.



Features & Benefits of StrongCrete

- Complies with ASTM C1240.
- Available in convenient pack sizes of 25Kgs & 1000 Kgs.
- Provides cohesive and impermeable concrete.
- Suitable for making high-strength-high-performance concrete.
- Helps improve physical as well as mechanical properties of concrete.
- Helps in preventing Chloride initiated corrosion, Alkali-aggregate reaction, Sulphate attack, etc.
- Helps in achieving greater economy since higher strength of concrete enables reduction in sections.
- No special equipment required for mixing, placing or finishing.
- Compatible with all types of cements and admixtures.
- Backed by team of specialists to ensure optimum product performance and cost efficiency.

Physical & Chemical analysis of StrongCrete & StrongCrete+

Property	StrongCrete	StrongCrete+
SiO ₂	85%	92%
Al ₂ O ₃	-	-
Fe ₂ O ₃	-	-
CaO	<1	<1
Fineness M ₂ /kg	17000	20000
Specific Gravity	2.22	2.17
Loss & Ignition (L.O.I)	3.19	2.96
Moisture Content	0.85	0.54
Bulk Density	610	630

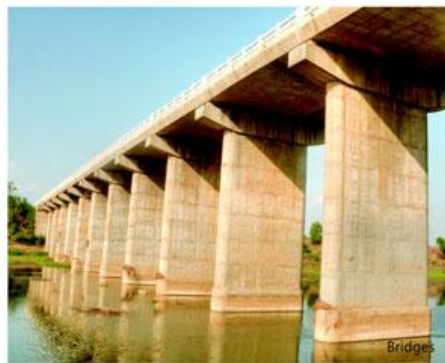
Technical advantages of StrongCrete

Improvements in Physical properties of concrete:

- StrongCrete makes concrete more cohesive and therefore less prone to segregation.
- StrongCrete requires less water in concrete which helps in reducing bleeding of concrete considerably. A dosage of StrongCrete in excess of 5% of cement can help in completely eliminating bleeding.

Improvements in Mechanical properties of concrete:

- StrongCrete makes concrete high-strength-high-performance, which helps in enhancing the other mechanical properties of concrete such as modulus of elasticity or flexural strength. This property of StrongCrete can help in reducing sections of structural members, which can lead to: more space in residential and commercial buildings; and greater flexibility in designing infrastructures such as bridges and fly-overs.
- StrongCrete makes concrete impermeable owing to the secondary hydration process. This property of StrongCrete can help in eliminating the possibility of corrosion of reinforcing steel due to chloride and sulphate attack. This also helps in eliminating the risk of alkali-aggregate reaction in areas where aggregates are alkali reactive.



Applications of StrongCrete

- For making high-strength-high-performance concrete for residential, commercial as well as public utility buildings,
- Infrastructure projects such as bridges and fly-overs
- Shotcreting in tunnels and mines,
- Infrastructure projects such as water treatment plants and sewage treatment plants, where impermeable concrete is required.
- Heavy equipment foundations,
- Precast concrete products,
- Seismic resistance structures.

Usage of StrongCrete

Mixing: StrongCrete can be added during or after the batching of concrete. Materials used, batching, mixing and testing shall confirm to the applicable sections of ASTM C1116 and ASTM C1436. Care should be taken not to add StrongCrete as the first ingredient while batching and mixing concrete.

Placing: StrongCrete concrete can be placed by pumping, shotcreting or using conventional method and equipment of placing.

Finishing: Conventional finishing techniques and equipment can be used for finishing StrongCrete concrete. Needle vibrators as well Plate vibrators can also be used on StrongCrete concrete.

Dosage of StrongCrete

General dosage of StrongCrete in concrete can be 4 to 15 % of the weight of cement. However, Structural Engineer's advice is recommended for deciding actual dosage.

Packaging of StrongCrete

StrongCrete is available in HDPE bags of convenient sizes 25Kgs. & 1000Kgs.

Safety Precautions

It is recommended that gloves, eye and nose protection devices are used during handling and usage of StrongCrete.



About Precision Drawell Pvt. Ltd.

Precision Drawell Pvt Ltd is a unit of Khandelwal Group of companies, started in 1985, has now nurtured into a fast growing company manufacturing different grades of steel wires and wire products. It has a state-of-the-art wire drawing plant at Nagpur in Maharashtra, India.

An ISO 9001-2008 accredited company, Precision Drawell is one of the leading manufacturers of special grades of Steel Wires and Wire products. The plant with current manufacturing capacity of 30000 Mt per annum of these products, is slated for expansion very soon.

Equipped with the expertise in drawing steel, Precision has ventured into manufacturing of steel fibres for application in cement concrete in the year 2012. Today, Precision's steel fibres (ToughCrete) are being used by reputed customers for high-end applications all over the country.

Very recently, Precision has also ventured into another performance enhancing product for cement concrete – Microsilica (StrongCrete). In time to come, Precision plans to introduce several other performance enhancing products for applications in cement concrete.

Our Vision : The vision of Precision Drawell is to build a business enterprise, which is based on ethical business practices, fosters all-inclusive growth and prosperity for all stakeholders and play a responsible role as a corporate citizen

Mission : The mission of Precision Drawell is to emerge as leader in the manufacture and distribution of special grades of Steel Wire, Wire products and specialty products for applications in cement concrete.



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