

Get the best out of Toughcrete & Toughcrete+

Usage of Toughcrete & Toughcrete+

Mixing:

They 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 shall be taken not to add **Toughcrete/Toughcrete+** as the first ingredient while batching and mixing concrete.

While using **Toughcrete**, care shall be taken to ensure proper dosing method of fibres and mixing of all the ingredients of concrete so as to avoid any balling effect of fibres.

Toughcrete+ are glued steel fibres where separation of fibres take place during the mixing process thereby eliminating the possibility of balling effect.

In large project sites where batching plants are in use and also in readymix concrete plants it is recommended that steel fibre dosing equipment are used.



**Tough
crete**
STEEL FIBRE
Add toughness to concrete



**Tough
crete+**
GLUED STEEL FIBRE
Add toughness to concrete

Placing:

Toughcrete & Toughcrete+ steel fibres concrete can be placed by pumping, by truck shunts, shotcreting, slipform pavers or using conventional methods and equipment of placing. Although SFRC (Steel Fibre Reinforced Concrete) looks stiffer, it's relatively easy to place and consolidate. Care shall be taken to avoid addition of extra water to increase workability. This will lead to alteration of water-cement ratio and eventually affect the strength of concrete.

Finishing:

Conventional finishing techniques and equipment can be used for finishing **Toughcrete/Toughcrete+** steel fibres concrete. Needle vibrators, Plate vibrators as well as power screeds can be used on **Toughcrete/Toughcrete+** steel fibres concrete.

While using **Toughcrete/Toughcrete+** steel fibres for road pavements, the broom finishing to the surface shall be done just after the water sheen practically disappears and prior to application of curing compound.

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Dosage of Toughcrete & Toughcrete+

General dosage of **Toughcrete/Toughcrete+** in concrete can vary from 15 to 150 Kg/m³ of concrete, depending upon its application. However, Structural Consultant's advice is recommended for deciding actual dosage.

Packaging of Toughcrete & Toughcrete+

Toughcrete/Toughcrete+ is available in HDPE woven sacks of 15, 20 & 25 Kgs.

Safety Precautions

It is recommended to use gloves and eye protection devices during handling and usage of **Toughcrete & Toughcrete+** steel fibres.



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