

**Tough  
crete**  
STEEL FIBRE

Add toughness to concrete

**HIGH  
PERFORMANCE  
CONCRETE**





High performance concrete (HPC) is being used commonly in high-rise buildings as well as infrastructure projects, worldwide, for quite some time now. Use of steel fibres in such concrete has been a recent phenomenon. Such concrete is called as 'Ultra-high performance fibre-reinforced concrete (UHPRFC)' and has several advantages over normal HPC.

Addition of **Toughcrete** or **Toughcrete+** to HPC helps in improving the mechanical properties of concrete, thereby improving its overall performance as well as service life.

**Benefits of Toughcrete & Toughcrete+ in HPC**

- Improved ductility of concrete
- Improved compressive strength
- Improved shear & torsion strength
- Improved flexural strength
- Improved performance under impact loading
- Improved toughness
- Improved aesthetic appeal of concrete structures
- Improved tensile strength
- Improved strength
- Improved aesthetic appeal of concrete structures



Toughcrete



Toughcrete+



**Commercial advantages of Toughcrete & Toughcrete+ in HPC**

- Higher grades of concrete can be achieved thereby helping in overall reduction in sections of concrete members
- Complicated structural as well as architectural members can be designed and constructed using UHPRFC

**Applications of Toughcrete & Toughcrete+ in HPC**

- High rise residential as well as commercial buildings
- Stadia and sports arenas
- Public utility buildings such as airports and shopping malls
- Bridges and fly-overs with longer spans
- Seismic resistant and blast proof structures
- Aesthetic canopies
- All other heavy-duty yet aesthetic concrete structures

*For optimum results of Toughcrete & Toughcrete+ kindly read the hand-out: 'Get the best out of Toughcrete & Toughcrete+' on Usage; Dosage; Packaging and Safety Precautions provided by us separately*



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