

OSCRETE S-MASTER 54

Synthetic 'Macro' Fibre

PRODUCT DESCRIPTION

Oscrete S-Master 54 is a high density, high modulus polymeric fibre designed to impart reinforcement to a variety of concrete mixes including precast elements, floors (industrial, commercial or domestic), cold room floors and thin sections. **Oscrete S-Master 54** when dosed into concrete slows down crack propagation and reduces plastic shrinkage as well as enhancing impact and corrosion resistance.

APPLICATIONS

Oscrete S-Master 54 is used to reinforce concrete overlays and pavements and can be a replacement to A type mesh. The twisted bundle offers long term durability, structural enhancements and temperature and shrinkage crack control.

BENEFITS

- Reduce plastic shrinkage cracking
- Improve fatigue resistance
- Improve flexural toughness
- Reduce crack width opening
- Reduce plastic settlement cracking
- Enhance durability
- Reduce bleeding
- Alternative to crack control
- Fire resistance
- Non corrosive and non rusting

PROPERTIES

Nature:	Synthetic Fibre
Appearance:	Grey twisted bundle
Specific Gravity: (20°C)	0.91 g/cm ³
Fibre Length:	54mm
Absorption:	Nil
Acid & Salt Resistance:	Excellent
Tensile Strength:	517 MPa
Modulus of Elasticity:	5.4 GPa

ADDITION RATES

Dosage rates vary dependant on mix design, process, aggregate type and the desired effect but typically:

2.0 —7.0 kg per cubic metre

Site trials should be carried out to determine the correct dosage and mix design.

STANDARDS

Oscrete S-Master 54 complies with the requirements of BS EN 14889-2:2006 'Fibres for Concrete' .



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COMPATIBILITY

Oscrete S-Master 54 is compatible with all types of EN 197 cement systems.

STORAGE

Oscrete S-Master 54 should be stored in a dry environment, moisture ingress will cause the water soluble bags to degrade.

HANDLING

Please refer to the **Oscrete S-Master 54** material safety data sheet but in line with normal handling procedures, personal protective equipment should be worn.

Refer to the Material Safety Data Sheet for full details.

PACKAGING

Oscrete S-Master 54 is packed in 1kg mixer ready bags, 10 bags per box, 42 boxes per pallet.

NOTES

For the most effective dispersion of fibres, Oscrete recommend the use of a high performance admixture to complement the fibres.

Oscrete S-Master 54 is packaged in mixer ready bags that can be added directly into the concrete mixing system. Where possible add the fibres to rotating drum, once all the fibres have been added mix for four to five minutes at a standing drum mixing speed.

Fibres will reduce the visual slump measured by the slump test, use a recommended admixture to regain the initial workability.—avoid adding water

Please consult the OSCRETE technical department for advice on dosage and admixture selection.

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Disclaimer

The physical properties quoted are typical, and should not be taken as a specification. The information supplied in our literature is based on data and experience and is given in good faith. Our policy is one of continuous research and development and we reserve the right to update this information at any time; customers should therefore ensure they have the latest issue. Whilst we guarantee the consistent high quality of our products, we have no control over the circumstances in which our materials are used, site conditions or the execution of the work and are therefore unable to accept any liability for any loss or damage which may arise as a result thereof. Materials are supplied in accordance with our standard conditions of sale.

