

# MasterFiber<sup>®</sup> S 65

The hooked end hard-drawn wire fibre

## DESCRIPTION

**MasterFiber S 65** is a hooked end hard-drawn wire fibre (glued), conforming to the provisions of ASTM A820, Type 1. **MasterFiber S 65** is a glued fibre allowing for even dispersion through the matrix, ensuring no balling or pumping problems occur.

**MasterFiber S 65** has an extensive history within the mining and construction industry and has been used in major tunneling and underground projects around the globe.

The use of steel fibre reinforced shotcrete outperforms mesh reinforced shotcrete with improved crack resistance, ductility, energy absorption and impact resistance. Properly designed steel fibre reinforced shotcrete will reduce or eliminate cracking and allow for deformation with ductile stress redistribution.

## FIELD OF APPLICATION

Steel Fibre reinforced shotcrete (SFRS) utilizing **MasterFiber S 65** is typically used in such applications as:

- Ground Support
- Tunnel final linings
- Tunnel repairs
- Slope stabilization
- Retaining walls and soil nailing

## ADVANTAGES

- Allows shotcrete to follow the contours of the rock or ground, giving a consistent thickness, which provides a significant reduction in shotcrete consumption.
- The need to install mesh is eliminated and the decrease in time for which lifting equipment is needed results in reduction of cycle times and overall costs.

- Elimination of the difficult and dangerous job of installing mesh considerably increases safety on the work site.
- Increases the crack resistance, ductility, energy absorption and toughness of concrete.

## TECHNICAL INFORMATION

Length	35mm
Diameter	0.55mm
Aspect Ratio	64
Tensile Strength	1345 MPa

## APPLICATION

**MasterFiber S 65** can be added to the mix at any stage during batching. Allow 3 to 5 minutes at mixing speed for fibres to disperse evenly throughout the matrix.

## DOSAGE

Energy absorption (J) of plate of poured concrete C30/37, according to Efnarc/SNCF:

Dosage	S25 (J)	Dosage	S25 (J)
20	800	35	1130
25	910	40	1245
30	1015		

## PACKAGING

**MasterFiber S 65** is supplied in 20kg bags.

## STORAGE

**MasterFiber S 65** should be stored undercover protected from the weather. Water soluble glue.



We create chemistry

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**STATEMENT OF RESPONSIBILITY**

The technical information and application advice given in this **BASF Construction Chemicals** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF Construction Chemicals** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.

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