

MEYCO[®] FIB SP 530/540/550

Polypropylene fibre. Reinforcing fibre for shotcrete

Description

This fibre is extruded from a natural Polypropylene homo polymer and formed into a crimped profile in order to anchor it in a cementitious matrix.

It is thus capable of “reinforcing” the shotcrete and provides a toughness and ductility to the material.

Features and benefits

The MEYCO[®] FIB SP 530/540/550 fibre is user friendly and is easy to dose into concrete mixes. It also has high resistance to acid/alkali attack and is therefore suitable for use in wet underground conditions.

Typical applications

Properties listed are only for guidance and are not a guarantee of performance

The reinforcement of wet and dry shotcrete applications

Properties	Value
Nominal x section area (mm ²)	0.75
Melting Point (°C)	150 – 170
Density (g/cm ³)	0.88 – 0.92
Colour	Translucent white / Black
Fibre lengths (mm)	30, 40, 50
Tensile strength at yield, (Mpa)	240
Elongation at yield, (%)	24.4
Water absorption	0
Acid/alkali resistance	High
EFNARC Plate test (Joules) Round Determinate Panel Test (J)	800-900 @ 9 kg/m ³ ±350 @ 9 kg/m ³

For further information you are invited to contact your local BASF representative

Dosage and batching

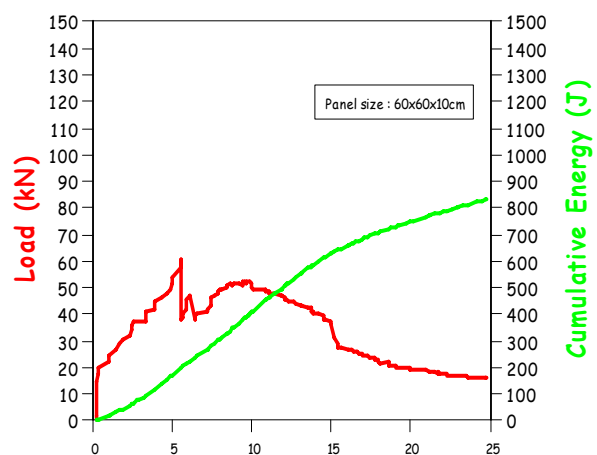
The fibres must be added to the concrete mixer after the water and admixtures.

Mix for at least 2-3 minutes to ensure even distribution in the mix. There will be a slight slump loss after addition of the fibres – do not add extra water but design the mix to allow for the addition of the fibres.

Typically 9 kg/m³ will produce an energy absorption of 700 Joules for an in-situ 35 MPa shotcrete. Site trials **MUST** however be carried out to determine the performance of the fibre and the shotcrete mix.

Packaging

The fibres are packed loose in transparent plastic bags in weights to suit dosing into the mixer. Weights should be specified when ordering but typically 4.5 kg will suit a 0.5 m³ mix.





The Chemical Company

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Storage

Material is very stable, no foreseen hazards.
Protect against fire.

Safety precautions

Product is extremely stable, presenting little hazard to health. However in fire conditions, carbon monoxide, carbon dioxide and other gases or fumes may be evolved.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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