



BarChip<sup>®</sup> MQ58

## PRODUCT INFO

BARCHIP MQ58 IS SPECIFICALLY  
DESIGNED TO PROVIDE THE  
PERFECT FINISH IN COMMERCIAL  
AND INDUSTRIAL FLOORING



Elasto Plastic Concrete

# SPECIFICALLY DESIGNED FOR COMMERCIAL AND INDUSTRIAL FLOORING.

EPC's BarChip MQ58 is the latest generation structural fibre from EPC's future fibre research program. BarChip MQ58's monofilament design is specifically targeted at providing the best possible product finish. EPC's BarChip MQ58 is used predominantly in commercial flooring and engineered slab on grade applications.

## PRODUCT FEATURES

Characteristic	Material Property
Base Resin	Modified Olefin
Length	58 mm
Tensile Strength	600 MPa
Surface Texture	Continuously Embossed
No. Fibres per kg	53,800
Specific Gravity	0.90 - 0.92
Youngs Modulus	> 6.5 GPa
Melting Point	120°C - 170°C
Ignition Point	Greater than 450°C

## BENEFITS

- Up to 50% price reduction vs traditional steel mesh
- Long term durability ~ corrosion free
- Delivered to site ready-mixed and ready-reinforced
- Eliminates cutting and placing of steel mesh, increasing efficiency and productivity
- Significant reduction in carbon footprint
- Safer and lighter to handle than steel



CLOSE UP OF  
THE BARCHIP FIBRE

## DOSAGE

BarChip MQ58 has a regular dosage rate of 3 kg to 6 kg per cubic metre. Dosage rate should be determined based on performance requirements.

## MIXING

For optimum fibre dispersion of BarChip MQ58, bags should be added to the mixer with the initial sand and aggregates, followed by cement and water. Once completed the mixer should be run at high speed for approximately 5 to 10 minutes. 6 kg of EPC's BarChip MQ58 may reduce measured slump by between 10 mm and 20 mm dependent on mix design. For more information contact your nearest EPC agent for a detailed batching and mixing guide.

## PUMPING

BarChip MQ58 can be safely pumped through 50 mm rubber hoses without difficulty. Precautions should be taken to ensure the fibres can pass freely through the hopper grate.

## HANDLING AND STORAGE

BarChip MQ58 pucks are packed in 5 kg mulchable paper bags (360 kgs per pallet) and supplied on durable recyclable plastic pallets with a fitted rain hood to allow storage outdoors. Bags stored individually must be protected from water damage.

For full safety refer to BarChip MQ58 MSDS available for download at: [www.elastoplastic.com](http://www.elastoplastic.com)

## BEAM TESTING

EPC has conducted extensive beam testing of BarChip MQ58 fibres. Results show that BarChip MQ58 performs extremely well in both low and high strength concretes. Contact your nearest EPC office for full details.

BarChip MQ58	Design Strength (MPa)	Dosage	Age	Compressive Strength (N / mm <sup>2</sup> )	Peak Load (N / mm <sup>2</sup> )	Bending Strength $f_{ct}$ (N / mm <sup>2</sup> )	R <sub>e,3</sub>
Mean	40	5 kg / m <sup>3</sup>	28 days	51.4	39.9	5.3	39.1 %
	25	5 kg / m <sup>3</sup>	28 days	22.8	25	3.3	41.8 %

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**Elasto Plastic Concrete**  
The Synthetic Fibre Experts

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Distributors are located in other regions. For contact details visit [www.elastoplastic.com](http://www.elastoplastic.com).

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