

Product	PolyMacro Structure
Type	PM-48
Aspect Ratio	62



Technical Data Sheet

EESF® PolyMacro PM-48



Product Description

EESF® Macro synthetic Fiber PolyMacro® PM48 has been specifically designed for shotcrete applications and tunnel linings to increase impact and flexural resistance. Homogeneous Fiber distribution makes it possible to absorb energy in any point and any direction of the concrete segment; cracking resistance is considerably improved.

Advantages

- Reduced Plastic Shrinkage Cracks
- Synthetic Fiber prevents the risk of corrosion compared to wire mesh reinforcement.
- Low static and low fuzz
- Good processing and excellent mechanical properties.
- Three-dimensional reinforcement of concrete mix is achieved
- Alternative to Crack Control Mesh
- Reduced Water & Chemical Permeability
- Increased Abrasion Properties
- Increased Impact Resistance
- Improved Durability

Usage

- Internal Floor Slabs
- Water Retaining Structures
- Concrete Buildings
- Concrete Pavements
- Tunnels Linings & Segments
- External Hard Standings
- Pattern Imprinted Concrete
- Bridges
- Precast & Extruded Concrete
- Agricultural Areas
- Piling Concrete
- Shotcrete

Speciation Compliance

EESF® PolyMacro PM-48

is manufactured according to EN ISO 9001 standards and has full British Board

Product Data

Composition	100% virgin copolymer / polypropylene
Type	Macro synthetic monofilament wavy structure
Length	48 mm (min tolerance 2%)
Standard	EN 14889 Part II Type II, ASTM C1116 Type III
Aspect Ratio	62
Color	Transparent
Specific Weight	0.91gr / cm3
Elastic Modulus	min. 3.6 GPa
Tensile Strength	640 MPa
Corrosion	Non-corrosive
Chemical Resistance.	Alkali and acid resistance
Melting Point	165° C
Magnetism	Non-magnetic

Dosage

Doses of synthetic macro fibers varies between (1.8 and 4.5) kg/m3 depending on engineering requirements of the projects.



Packing

5 kg - 9kg Carton Packs





CERTIFICATE

Certificate of Registration

TEAM QUALITY MANAGEMENT SYSTEMS

This is to Certify that the Quality Management System of
**EGYPTIAN EUROPEAN FOR MANUFACTURING
STEEL FIBER**

Villa 306, Al Yasmine 6, 5th Settlement New Cairo, Cairo – Egypt.

Has been found to be of the Quality Management System Standard

ISO 45001:2018

(Occupational Health and Safety Management Systems)

This certificate is valid for the following product or service range

Manufacture of Steel Fiber for Ready- Mix Concrete

Certificate No. : TQO24100601

Date of initial registration	06-10-2024
Date of this certificate/Issue No.	06-10-2024
Certificate Expiry	05-10-2025
Recertification Due	05-10-2027



*After successful completion of Annual Surveillance Audit, New certificate will be issued.

This Certificate is valid per Rules and Regulations of TQ & also the surveillance audits conducted atleast once a year
To check the certification validity please visit our website- www.tq.com.eg or contact at- info@tq.com.eg



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Villa 306, Al Yasmine 6, 1st Settlement New Cairo, Cairo – Egypt.

Has been found to be of the Quality Management System Standard

ISO 9001:2015

(Quality Management System)

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ISO 14001:2015
(Environmental Management System)

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