

GLASS FIBRES



Glassman Fibres are designed for use in dry mix systems other premixing process. The glass strand reinforcement at low dosages. It has the flowing Good liquidity and integrity. Glassman used at low addition level to prevent cracking & improve the performance in concrete. Glassman protrude through the surface and require no additional finishing procedures. Adding glass fibres in concrete early shrinkage cracks during the concrete setting phase works best for shrinkage cracks and with Steel Fibre mix for reinforcement and flooring. It is extensively used for spray concrete, plastering in buildings and structural works like beam and columns. There are two types of glass fibres- AR glass fibres which is alkaline resistant and E- glass fibres which has low alkaline resistance

Advantages And Benefits

- Chemical Resistance high modulus of elasticity
- Easy mixing
- No Rusting
- Increased durability
- Crack control
- Suitable for both premix and spray
- It is particularly suited to the preparation of pre-bagged mixes of special mortars or renders.
- Used in Precast products for anti-crack benefits.

Dosages

- 0.6 to 1 Kg per m³ of concrete
- 85 – 150 gms / bag of cement.
- Higher the dosage better will be the mechanical properties.

Packaging And Dosage

Glassman Glass Fibre are packed in 100 gms, 15, 20 or 25 kgs. bags. It can also be made as per the requirement.

Specifications

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Product Code	Filament Diameter (um)	Zro2 Content (%)	Strand Ted (tex)	Strand Length	Sizing Content	Moisture %	Stiffness mm	Breaking Strength
AR	13um	16.7	50±10	6MM	1.6±0.2	≤0.2	≥120	≤0.25

Properties

Type of Glass Fibre	AR Glass Fibre	E Glass Fibre
Filament Diameter μ (+10%)	13, 19, 25	6, 18, 35
Filaments per kg.	200 Million	200 Million
Zirconia Content	Min. 17%	19% or high
Moisture Content	<0.2%	< 0.5%
Density (g/cm ³)	2.7	2.54
Tensile strength	1700 mpa	3400 mpa
Modulous Elasticity	72 GPA	70 GPA
Incombustability	Yes	Yes
Resistance to Acid	Yes	Yes
Sofetning point	936°C	846°C

Applications

- Flooring with steel fibres to avoid surface cracks
- Plastering
- Concrete products (Precast pipes, paver blocks and bricks)
- Readymix concrete.
- Dry mix
- Exterior panels

Directions To Use

Glassman fibres can be mixed with RMC plant or truck or into the site mixer as well. While mixing in plaster/ concrete/ wet mix it is added in the end. Long enough till it disperses properly.