

### DESCRIPTION:

Glass Fibre Reinforced Concrete or GFRC is known around the world as one of the most versatile building materials in the construction industry. Glass Fibres are Alkaline Resistant Glass Fibre Chopped Strands with high integrity glass fiber designed for use in dry mix systems or other premixing process. GFRC is principally composed of cement, sand, polymer (usually an acrylic polymer), water and other admixtures. Alkali resistant glass Fibres acts as the principle tensile load carrying member while the polymer and concrete matrix binds the Fibres Together and helps transfer loads from one fiber to another giving concrete its ultimate strength.

Glass Fibre does not protrude through the surface and require no additional finishing procedures.

### TYPICAL PROPERTIES

No.	Type of Glass Fibre	E Glass Fibres
1	Filament Diameter $\mu$ ( $\pm 10\%$ )	6,18,35
2	Filaments per kg.	200 Million
3	Zirconia Content	19% or high
4	Moisture Content	< 0.5%
5	Density (g/cm <sup>3</sup> )	2.54
6	Tensile Strength	3400 mpa
7	Modulus Elasticity	70 GPA
8	Incombustibility	Yes
9	Resistance to Acid	Yes
10	Softening Point	846°C

### PLASTERING

Shrinkage cracks are generally caused by improper plastering which allows water and other pollutants to enter into the structure and results into permeability, corrosion, leakage and dampness in the structures. Glass Fibres being insert while plastering does not let the structure corrode. The quality of concrete is improved with more cohesive and homogenous mix which provides reinforcement in the entire section of plaster. Glass fibres also reduces permeability and controls seepage & dampness in the plaster.

### BENEFITS

- Minimizes early shrinkage cracks
- Low cost
- High tensile strength
- High chemical resistance
- Insulating properties against cracks
- Ability to construct lightweight panels
- High compressive
- Flexural and tensile strength
- High temperature resistance
- Non flammable
- Corrosion-resistance
- Low maintenance
- Anti-magnetic
- Fire resistant
- Good electrical insulator
- Weather proof

### PACKING

25 kg. HDPE Bag

### SHELF LIFE & STORAGE

GLASS FIBER has a shelf life of 36 months from date of manufacture when kept at a temperature between 5°C to 45°C and store in the original, unopened bags. All material shall be stored under cover in a manner that will prevent damage preferable on pallets and protected from excessive heat and moisture. Do not freeze.

### **QUALITY ASSURANCE**

AMBICA SPECIALITY CHEMICALS is a firm of Assessed Capability. The company's quality system conforms to ISO 9001:2015.

### **HEALTH & SAFETY**

GLASS FIBRE is no-toxic and non-flammable. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. Full health and safety data are given in Product Safety Data Sheet.