

SUPER FIBER

Equal to concrete
specific gravity



Easy of use



Rust free



Non-magnetic



Low thermal
conductivity



Binevir SuperFiber is a glass macrofiber successfully used to replace steel fibers, welded wire mesh and conventional reinforcing bars in a wide variety of applications.

Binevir SuperFiber comply with ASTM C1116, Standard Specification for Fiber Reinforced Concrete and Shotcrete, and are specifically designed to provide equivalent tensile and bending resistance to conventional reinforcement requirements. Concrete reinforced with Binevir Super Fiber will have three-dimensional reinforcing with enhanced flexural toughness, impact and abrasion resistance and will also help mitigate the formation of plastic shrinkage cracking in concrete. Dosage rates will vary depending upon the reinforcing requirements and can range from 34 to 68 lbs/yd³ (15.4 to 30.8 kg/m³).

TECHNICAL PROPERTIES

Material	Glass fiber reinforced polymer - GFRP	
Specific Gravity	2,3-2,4	
Tensile Strength	>160 ksi	>1103 MPa
Modulus of Elasticity	>4351 ksi	>30GPa
Aspect Ratio	45	
Glass Transition Temperature*	219 F	104 C
Electrical Conductivity	Dielectric	
Thermal Conductivity	Low	
Water Absorption	Negligible	
Chemical Resistance	High	
Length	2"	50 mm
Color	Grey	
Typical Dosage Rates	34 to 68 lbs/yd ³	15.4 to 30.8 kg/m ³

*per ASTM E 1356

Application:

- High performance floors with extended joint spacing
- Thin walled precast (septic tanks, vaults, walls, etc.)
- Shotcrete for tunnel linings, pool construction and slope stabilization
- **Residential**
Driveways
Sidewalks
Pool Decks
Basement floors and walls
Masonry
ICF construction
- **Commercial & Industrial**
Parking slabs
Warehouse floors
Agricultural slabs
Loading docks
Truck aprons
Pour back slabs

BINEVIR
COMPOSITES

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PRECAUTIONS/LIMITATIONS

Use of fibers may cause an apparent loss in measured slump of concrete. This may be offset with the use of a water reducing admixture if necessary.

Fibers should never be added to a "zero-slump" concrete. Ensure a minimum concrete slump prior to addition of any fiber material. Fibers may also be added in loose form to aggregate charging devices.

In all cases, consult the Safety Data Sheet before use.

DIRECTIONS FOR USE

Binevir fibers can be added to the concrete mixture at any time prior to placement of the concrete. It is generally recommended to add any fiber material at the ready-mix concrete plant during batching. Fibers must be mixed with concrete for a minimum of three (3) to five (5) minutes at maximum mixing speed, depending on the mixer type, to ensure complete dispersion and uniformity. For higher dosages, increased loss in slump can be expected depending upon the mixture design.

SPECIFICATIONS/COMPLIANCES

ASTM C1116

ASTM D7508

PACKAGING

6,6 lbs (3 kg) in water soluble bags

SHELF LIFE

3 years in original, unopened package

CLEAN UP

Loose fiber material may be disposed in proper receptacles for refuse. Finishing equipment with fibers embedded in concrete should be thoroughly cleaned

WHAT IS FIBERGLASS?

GLASS FIBER REINFORCED POLYMER - GFRP

Glass fibers provide high strength, while the polymer transfers the load from filament to filament, and protects the fibers from chemical attack.

