



Easy of use



Rust free



Non-magnetic



Low thermal conductivity



SUPER FIBER

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/yd³ | 15.4 to 30.8 kg/m³ |

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
- Commercial & Industrial Parking slabs
- Warehouse floors Agricultural slabs Loading docks Truck aprons Pour back slabs

ICF construction



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FIBERGLASS SUPERFIBER



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.

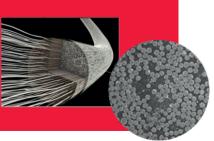
DIRECTIONS FOR USE

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.

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.



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

