



Fibrin XT is a monofilament polypropylene fibre that reduces the occurrence of plastic shrinkage and plastic settlement cracking, whilst enhancing the surface properties and durability of hardened cementitious products. The fibres are coated with surfactant to improve initial dispersion. These fibres are specifically designed to be used as an alternative to Air Entraining Agents. (AEA). Fibrin XT fibres are extremely fine and although slightly visible at the plastic stage, are not readily seen on the hardened surface.

### Advantages & Benefits

- Reduced Plastic Shrinkage Cracks
- Reduced Plastic Settlement
- Reduced Bleeding
- Alternative to Crack Control Mesh with the appropriate design
- Reduced Water & Chemical Permeability
- Alternative to Air Entraining Agent. (AEA)
- Improved Freeze / Thaw Resistance
- Increased Abrasion Resistance
- Increased Impact Resistance

### General Applications

- Internal Floor Slabs
- Bridges
- Agricultural Areas
- Water Retaining Structures
- Repair Materials
- Road Pavements
- Runway Aprons
- External Hard Standings
- Precast Concrete
- Shotcrete / Guniting
- Sea Defence Work
- Pattern Imprinted Concrete
- Extruded Concrete

### Mixing Directions:

Fibres should ideally be added in the mixer, although in some instances this may not be possible and addition at site will be the only option. If mixing at a dry batch plant, fibres should be the first constituent in the truck along with one third of the mixing water. After all the other ingredients have been added, including the remaining mixing water, the concrete should be mixed for a minimum of 70 revolutions at full speed to ensure uniform fibre dispersion. In the case of site mixing, a minimum of 70 drum revolutions is highly recommended.

### Packing & Dispensing

Fibres are packed in the desired measured quantities in degradable paper bags. These bags should be added to the truck or plant mixer unopened. Please note that one bag of fibre is the required amount of product for one cubic metre of concrete. Bagged fibres are placed in boxes for ease of handling. Fibres can also be ordered in bulk quantities and packed in jumbo boxes or bulk sacks. Specifically designed fibre dosage machinery is available for larger projects.

### Storage

Boxes of fibres must be stored on a clean surface, in dry conditions under cover and away from the possibility of damage.

### Health & Safety

Please read the specific ADFIL safety data sheet or consult ADFIL personnel.

### Quality Assurance

Adfil's manufacturing plants operate within a strict ISO 9001:2008 Quality Assurance System and ISO 14001 Environmental Management System. The products are manufactured to exacting standards on the technologically advanced production packaging lines, which allows constant monitoring of quality. Quality audits are periodically conducted at our manufacturing plants.

### Technical Advice

The Technical Service Department of ADFIL Construction Fibres is available to assist you in the correct use of our products.

### Specification

In order to ensure that you are not specifying a technically inferior product, please ensure that your specification conforms to include the following:

- |                                       |                                  |
|---------------------------------------|----------------------------------|
| • Material: 100% Virgin Polypropylene | • Design: Monofilament           |
| • Fibre Length: Blended               | • Surface: Coated for dispersion |
| • Density: 910kg / m <sup>3</sup>     | • Colour: Natural                |
| • Absorption: Nil                     | • Melt Point: 160°c              |
| • Ignition Point: 365°c               | • Thermal Conductivity: Low      |
| • Electrical Conductivity: Low        | • Acid Resistance: High          |

### Design Service

For all concrete floor design requirements please consult your ADFIL contact.

### Total Solution Provider

ADFIL offers the Full Design and Construction Package. Our expertise and knowledge of the Construction Industry means that we can offer our customers bespoke solutions in terms of engineered proposals, concrete mix designs, bespoke packaging configurations, high standards of distribution and fibre dosage equipment.