



The ADFIL range of monofilament polypropylene fibres reduce the occurrence of plastic shrinkage and plastic settlement cracking, whilst enhancing the surface properties and durability of hardened cementitious products. The fibres are extremely fine, single filaments, cut to lengths of either 3, 6, 12 and 18mm and some fibre types also have blended lengths. The fibres are coated with surfactant to improve initial dispersion within the cementitious materials. The ADFIL fibres are slightly visible at the plastic stage but are not readily seen on the hardened surface.

### Advantages & Benefits

- Reduced Plastic Shrinkage Cracking
- Reduced Explosive Spalling in Fire
- Alternative to Crack Control Mesh
- Improved Freeze/Thaw Resistance
- Reduced Water & Chemical Permeability
- Reduced Bleeding
- Reduced Plastic Settlement Cracking
- Increased Impact Resistance
- Increased Abrasion Properties

### General Applications

- Internal Floor Slabs
- Concrete Framed Buildings
- External Hard Standings
- Bridges
- Underground Construction
- Agricultural Areas
- Self compacting Concrete & Screeds
- Water Retaining Structures
- Repair Materials
- Pattern Imprinted Concrete
- Precast Concrete
- Extruded Concrete
- Piling Concrete
- Shotcrete/Gunite

### Mixing Directions

Fibres should ideally be added at the batching plant although in some instances this may not be possible and addition at site will be the only option. If mixing at the batching plant, fibres should be the first constituent, along with half 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, at full speed should take place.

### Packing & Dispensing

Fibres are packed in the desired measured quantities in either degradable / pulpable paper bags or plastic bags. The paper bags can be added to the truck or plant mixer unopened. Plastic bags will need to be opened and the fibres added manually. Bagged fibres are placed in boxes for ease of handling. Fibres can also be ordered in bulk quantities and packed in boxes or super sacks of various sizes between 20-200kg. The larger units are specifically designed for projects where fibre dosage machinery is available.

### Storage

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 in accordance within a strict ISO 9000:2000 Quality Assurance system and ISO 14001 Environmental Management System. The products are manufactured to exacting standards on the technologically advanced production and packaging lines, which allows constant monitoring of quality. Quality audits are 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 / Shape: Monofilament Fibre
- Fibre Length: 3, 6, 12, 18mm nominal or blended lengths
- Surface: Coated for dispersion

### 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.