

CRACKSTOP® M

MONOFILAMENT POLYPROPYLENE FIBRES



The Crackstop 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. Crackstop fibres are extremely fine, single filaments, cut to lengths of either 3, 6, 12 and 18 mm. Some fibre types also have blended lengths. The fibres are coated with surfactant to improve initial dispersion within the cementitious materials.

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

Crackstop 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

Crackstop 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. Crackstop fibres can also be ordered in bulk quantities and packed in boxes or super sacks of various sizes between 20-200 kg. The larger units are specifically designed for projects where fibre dosage machinery is available.

Storage

Crackstop 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 contact us for consultancy.

Quality Assurance

The Quality Management Systems of Low & Bonar facilities have been approved to the ISO 9001 Quality Management System Standard. Certificates are available on request. Adfil products are manufactured to exacting standards on technologically advanced production and

packaging lines, which allows constant monitoring of quality. Quality audits are conducted at our manufacturing plants.

Technical Advice

Our technical specialists are available to assist you in the correct use of all Adfil 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 with a diameter of 22 µm max.
- Fibre length: 3, 6, 12, 18 mm nominal or blended lengths
- Surface: Coated for dispersion

Design Service

For all concrete floor design requirements please consult your Adfil representative.

Total Solution Provider

We offer a full design service for Adfil products. 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, packaging configurations, high standards of distribution and fibre dosage equipment.

Adfil. Reinforced concrete reinvented.