

Fibercap[®] 12

High performance polypropylene fibre

Uses

Fibercap 12 is primarily used as a crack controlling additive for cementitious materials. Typical applications are:

- Crack control in readymix concrete, precast concrete, conventional shotcrete, screeds, rendering mortars, microsilica concrete
- Concrete slabs, pavements, driveways, imprinted concrete
- Water retaining structures, marine concrete etc.
- Patch repair, thin section walling etc.

Advantages

- Cost effective - replaces anti crack wire mesh
- User friendly - decreases construction time and labour
- Versatile - Inhibits intrinsic cracking in concrete, improves finishing characteristics, concrete durability and acts as a rust proofer.
- Disperses uniformly throughout the mix & does not rust.

Standards compliance

Fibercap 12 complies with requirements of ASTM C111.6

Description

Fibercap 12, is a high performance polypropylene fibre, developed as a crack controlling additive for cementitious materials. It is available as monofilament 12mm in length for concrete and 6mm in length for plaster and mortar. It is used to inhibit the formation of small cracks which can occur through plastic shrinkage, premature drying and early thermal changes, in order to provide utilization of the intrinsic properties of the hardened cementitious material. Fibercap 12 is based on selected raw materials and manufactured under controlled conditions to give a consistent product.

Properties

Form	Polypropylene Fibre
Size	12 mm
Specific gravity	0.91 gr/cm ³
Alkali, Sulphate and Chloride content:	Nil
Fibre thickness	35 microns
Elastic modulus	3.5 GPa
5500 – 7000 MPa	345 N/mm ²
Melting point	165 °C

Dosage

The optimum dosage of Fibercap 12 to meet specific requirements should always be determined by trial mixes using the materials and conditions that will be experienced in use.

For normal concrete a dosage between 0.6 to 1.0 kg/m³ may be used.

Packaging

Fibercap 12 is available in 5 kg bags.

Storage

Fibercap 12 has a minimum shelf life of 5 years at 35°C if kept in a dry store in the original, unopened packs.

Precautions

Health and safety:

Fibercap 12 does not fall into the hazard classifications of current regulations. However, it should not be allowed to come into contact with skin.

Fire:

Fibercap 12 is flammable.