

# KingFiber® PP75

High performance monofilament polypropylene fibers.

## DESCRIPTION

KingFiber PP75 is a micro reinforcement, manufactured of 100% polypropylene fibers, designed for use with all cementitious mixes. The inclusion of KingFiber PP75 within a concrete mix or cementitious mixes will reduce plastic and hardened concrete shrinkage, improve impact strength, and increase fatigue resistance and concrete toughness.

## APPLICATIONS

KingFiber PP75 is ideally designed for use in the following applications:

- ☞ Slab on grade.
- ☞ Stamped concrete.
- ☞ Pre-cast concrete.
- ☞ Water tanks.
- ☞ Pavements.
- ☞ Shotcrete.
- ☞ Renders.
- ☞ Composite decks.

## ADVANTAGES

- ☞ Controls and inhabits crack formation in concrete.
- ☞ Reduce plastic shrinkage and settlement cracking.
- ☞ Available in variable lengths, 20 mm and 12 mm for concrete and stamped concrete, and 6 mm for plasters and mortars.
- ☞ Compatible with all types of cement and concrete admixtures.
- ☞ Rust free.

## STANDARDS

KingFiber PP75 complies with the requirements of ASTM C-1116- 1997, Type 3.

## METHOD OF USE

### Mixing

KingFiber PP75 is added to the mixer before, during or after batching of concrete. Mixing speed and time should be as per ASTM C-94.

## PACKAGING

KingFiber PP75 is available in 50 mm, 40 mm, 20 mm, 12 mm, and 6 mm fiber length: 0.6 kg or 0.9 kg bags.

## TECHNICAL PROPERTIES

Composition:	Virgin copolymer/ polypropylene
Form:	Monofilament fiber
Colour:	White
Specific gravity:	0.91 kg/ltr
Tensile strength:	450 - 560 MPa
Elastic modulus:	5100 - 6000 MPa
Softening point:	150°C
Melting point:	165°C
Ignition point:	580°C
Diameter:	35±5 um
Chloride content:	Nil
Sulphate content:	Nil
Alkali content:	Nil
Alkali/Acid resistance:	Excellent

## DOSAGE

Dosage of KingFiber PP75 will vary depending on the area of application and the required properties of concrete mixes. Recommended dosage is between 0.6 to 0.9 kg/ m<sup>3</sup> of concrete.

## STORAGE

Shelf life is 1 year when stored under cover, out of direct sunlight and protected from extremes of temperature.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult KingKrete's Technical Services Department.

## HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

## NOTE



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Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local KingKrete representative. KingKrete Inc. reserves the right to have the true cause of any difficulty determined by accepted test methods.

## QUALITY AND CARE

All products originating from KingKrete's manufacturing facilities are manufactured under a management system independently certified to conform to the requirements of the quality standard ISO 9001.

\* Properties listed are based on laboratory-controlled tests.

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### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this KingKrete Inc. publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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