

# KingFiber<sup>®</sup> PPM

High performance monofilament polypropylene fibers.

## DESCRIPTION

KingFiber PPM is a micro reinforcement, manufactured of 100% polypropylene fibers containing no reprocessed olefin materials designed for use with all cementitious mixes. The inclusion of KingFiber PPM within a concrete mix or cementitious mixes will control shrinkage cracks and will act as an alternative to traditional crack control steel mesh and will enhance the fire resistance of concrete.

## APPLICATIONS

KingFiber PPM 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 inhibits crack formation in concrete.
- ☞ Cost effective, replaces secondary reinforcements (welded steel mesh).
- ☞ Reduces plastic shrinkage and settlement cracking.
- ☞ Compatible with all types of cement and concrete admixtures.
- ☞ Rust free.
- ☞ Enhances fire resistance of concrete.

## STANDARDS

KingFiber PPM complies with ASTM C1116, Type 3 and with EN 14889-2.

## METHOD OF USE

### Mixing

KingFiber PPM is added to the mixer before, during or after batching of concrete.

Mixing speed and time should be as per ASTM C-94.

## TECHNICAL PROPERTIES

Composition:	100% virgin polypropylene
Form:	Monofilament individual fibers
Length:	3, 6, 12, 19 and 40 mm
Diameter:	18 - 32 micron
Specific gravity:	0.91 kg/ltr
Tensile strength:	600 - 700 MPa
Young's modulus:	3.0 - 3.5 GPa
Softening point:	150°C
Melting point:	160°C
Chloride content:	Nil
Sulphate content:	Nil
Alkali content:	Nil

## PACKAGING

KingFiber PPM is available in 0.6 and 0.9 kg bags and bulk transportation upon request.

## DOSAGE

Dosage of KingFiber PPM will vary depending on the area of application and on the required properties of concrete mixes.

Typical dosage is between 0.6 – 0.9 kg/m<sup>3</sup> of concrete. Please contact KINGKRETE Technical Department where higher dosages of up to 2 kg/m<sup>3</sup> of concrete are needed.

## 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.



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## NOTE

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 Qatar facility 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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KingKrete Trading & Contracting W.L.L  
Doha – State of Qatar  
www.kingkreteinc.com

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