

# REC FIBER PP 773

## HIGH PERFORMANCE MICRO POLYPROPYLENE FIBER

### DESCRIPTION

**REC FIBER PP 773** is a high-performance micro polypropylene fiber, developed to use with cementitious material concrete/ mortar as a crack controlling additive. It is available as mono filament 19, 12 mm in length for concrete and 6mm in length for plaster and mortars.

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. **REC FIBER PP 773** is based on selected raw materials and manufactured under controlled conditions to give a consistent product.

### PRIMARY APPLICATION

**REC FIBER PP 773** is primarily used as a crack controlling additive for cementitious materials. Typical applications are:

- Crack control in ready mix concrete, and concrete contain micro-silica
- Crack control in precast concrete segments
- Crack control in conventional shotcreting & screeds.
- Crack controlling in rendering mortars, plaster work.
- Crack control in concrete slabs, pavements, driveways, and in imprinted concrete.

### FEATURES/BENEFITS

- User friendly
- Excellent crack reduction in early age concrete
- Better concrete durability & reduce surface dusting.
- Improves impact and abrasion resistance
- Improves cohesiveness.
- Reduce segregation of the mix.
- Reduce shotcrete rebound.
- Cost effective, save anti crack wire mesh
- Versatile – inhibit intrinsic cracking in concrete, improves finishing.
- Improve concrete durability and acts as a rust proofer.
- Significant improvement in fire resistance and reduction to spall-damage.
- Better structural integrity protection.

### TECHNICAL INFORMATION

|                         |                                                             |
|-------------------------|-------------------------------------------------------------|
| Form                    | Virgin Polypropylene fiber                                  |
| Specific gravity        | 0.91 g/cm <sup>3</sup>                                      |
| Diameter                | 34 microns                                                  |
| Electrical conductivity | Negligible / Low                                            |
| Chemical resistant      | Excellent, alkaline & acids                                 |
| UV & Heat stability     | Excellent, long term                                        |
| Air Entrainment         | Air content of concrete will not be significantly increased |
| Youngs Modulus          | 5500 - 7000 MPa                                             |
| Tensile Strength        | Stretch enhanced to 350 N/mm <sup>2</sup>                   |
| Melting Point           | 160°C                                                       |
| Water absorption        | < 0.02%                                                     |
| Elongation at break     | 300 – 500 %                                                 |
| Standards compliance    | ASTM C111.60                                                |

## DIRECTIONS FOR USE

### DOSAGE

The optimum dosage of **REC FIBER PP 773** to meet specific requirements should always be determined by trial mixes using the materials and conditions that will be experienced in use.

As a guide to trials, the following dosage levels of **REC FIBER PP 773** are recommended.

|                     |                            |
|---------------------|----------------------------|
| For concrete mix    |                            |
| Fiber length        | 12,19 & 25 mm              |
| Aggregate size, max | 35 mm                      |
| Dosage              | 0.90 Kg. / m <sup>3</sup>  |
| Fire resistant      | 1 – 3 Kg. / m <sup>3</sup> |
| For mortar mix      |                            |
| Fiber length        | 6 mm                       |
| Dosage              | 0.60 Kg. / m <sup>3</sup>  |

- Millions of micro filaments per Kg.
- 30 – 50 x more fibers than fibrillated fibers.
- High surface area per Kg. → lower dosage for the same results as fibrillated fibers.
- Smooth fiber surface = 'fiber – free' concrete surface.

### MIX DOSING

In pre mixer: Add **REC FIBER PP 773** to dry or wet concrete, no additional mixing time is required.

In truck mixer: on the job site mix at high drum speed, mixing time approximate 1 minute / m<sup>3</sup> to obtain a good fiber dispersion.

### COMPATIBILITY

**REC FIBER PP 773** is compatible with other RECKON concrete admixtures in the same concrete mix. Any admixtures and **REC FIBER PP 773** should be added to the concrete separately and must not be mixed together prior to addition. The trial mixes should assess the resultant properties of concrete. **REC FIBER PP 773** is suitable for use with all types of cements OPC, SRC and cement replacement materials such as PFA, GGBFS, and silica fume.

### DISPENSING

The correct quantity of **REC FIBER PP 773** should be measured and should then be added to the concrete.

## PACKAGING

**REC FIBER PP 773** is available in following grades:

**REC FIBER PP 773**: 12, 19, & 25-mm fiber length is designed for concrete mixes, to be used with more than 5 mm size aggregate mixes

**REC FIBER PP 773**: 6 mm fiber length is designed for mortar mixes.

**REC FIBER PP 773** is sold in 25, 400 Kg Bag.

## STORAGE & SHELF LIFE

**REC FIBER PP 773** should be stored in dry condition in original bag.

## HEALTH & SAFETY

**REC FIBER PP 773** does not fall into the hazard classifications of current regulations. However, it should not be swallowed.

For further information consult Technical Department of RECKON CHEMICALS PVT Ltd. Lahore.

## QUALITY STATEMENT

All our products are manufactured to comply with our internal QA/QC program and quality management system to ensure consistency and quality.

## DISCLAIMER

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