

### Description:

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

**Sterling®PPF Fiber** is available in various length for concrete from 12mm to 40mm and for plaster and mortar 3 & 6 mm length. 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. **Sterling®PPF Fiber** is based on selected raw materials and manufactured under controlled conditions to give a consistent product.

### Application Includes:

**Sterling® PPF Fiber** is ideally designed for use in the following Fields of Application:

- Slab on grade.
- Stamped concrete.
- Precast concrete.
- Water tanks.
- Pavements.
- Shotcrete.
- Renders.
- Composite decks.

### Features & Benefits:

- Versatile-Controls and inhibits crack formation in concrete, Reduce plastic shrinkage and settlement cracking.
- Wide range of size - Available in variable lengths of 40, 36, 20, 19 and 12 mm for concrete and stamped concrete, 3 and 6 mm for plasters and mortars.
- Unique compatibility - Compatible with all types of cement and concrete admixtures.
- Rust free- Disperses uniformly throughout the mix and does not rust.
- Cost effective - replaces anti-crack wire mesh (welded steel mesh/secondary reinforcement).
- User friendly - decreases construction time and labour

### Storage & Shelf Life:

**Sterling® PPF Fiber** should be stored in dry warehouse. Protect product from the rain. If stored in dry conditions shelf life is 3 years.

### Packaging:

**Sterling® PPF Fiber** is available in various length & pack sizes in degradable bags.

### Application Instructions:

#### Mixing:

**Sterling® PPF Fiber** can be added directly to the concrete mixing system during or after the batching of the ingredients and mixed at high speed for four to five minutes. Additional mixing does not adversely affect the distribution or overall performance of **Sterling® PPF Fiber**. The addition of **Sterling® PPF Fiber** at the recommended dosage rates to a given mix may decrease the workability, which should be adjusted by use of an appropriate water reducing admixture. The addition of **Sterling® PPF Fiber** at the normal recommended dosage rate does not require any mix design or application changes.

#### Tooling & Finishing

**Sterling® PPF Fiber** reinforced concrete can be finished by most finishing techniques. **Sterling® PPF Fiber** does not affect the finishing characteristics of concrete. **Sterling® PPF Fiber** can be used in power/hand troweled concrete, colored and broom finished concrete.

### Typical Data

Fiber Type	Fibrillated polypropylene
Appearance	Fibrillated mini bundle
Specific gravity	Approx. 0.91g/cm <sup>3</sup>
Chloride content	Nil
Sulphate content	Nil
Alkali content	Nil
Melting point	160 - 170°C
Tensile strength	650 - 690 MPa
Young's modulus	3.8 - 4.2 GPa
Ignition point	580°C
Compatibility	<b>Sterling®PPF Fiber</b> is compatible with all types of cements, supplementary cementitious materials and Sterling's Techno Builders Solutions® range of admixtures.
Standards.	PPF Fiber complies with the requirements of ASTM C-1116-1997, Type 3

Note: results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, Application methods, test methods, actual site conditions and curing conditions.

## Cleanup information:

Typical standard dosage rate of **Sterling® PPF Fiber** in concrete is 0.91 kg/m<sup>3</sup> or as required by specific mix design.

**Additional Information:** Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd -The Specialist Construction Chemicals Company® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

\*Separate datasheet are available on these products.

## Health & Safety Instructions:

There are no health hazards associated with PPF Fiber in normal use. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals. Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment.

**Disclaimer:** The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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