KASTURI

ULTRA-HIGH

PERFORMANCE CONCRETE (UHPC)

With DuraFlex UHPC Micro Steel Fibers



SIGMA SERIES

Micro Steel Fiber (UX20)

MATERIAL	Micro Steel (Brass/CopperCoated)
APPEARANCE	Fine, Straight
DESCRIPTION	Designed for structural concrete application providing enhanced toughness and crack control due to superior bonding with concrete mix.

MATERIAL PROPERTIES

Physical Properties:

Diameter	0.2 - 0.25 mm (Other size on request)
Length	20 +- 1 mm
Aspect Ratio (L/D)	80
Tensile strength	2500-3000 MPa
Application	UHPC/ RPC / Bridges

APPLICATIONS

- UHPC BridgeGirders and Slabs
- Precast Ultra-High Performance Elements & Panels Industrial Floors & Structural Slabs

KEY BENEFITS

- Arrests micro-cracks at the earliest stage of propagation.
- Provides multi-directional reinforcement in dense matrices.
- Superior corrosion resistance via specialized coating.
- Maintains self-consolidating flow without balling.

LOGISTICS & SAFETY

- **Packing:** Available in **10kg** and **20kg** moisture-proof bags.
- **Storage:** Store in a dry, covered area to prevent oxidation.
- **Safety:** We recommend that gloves, a dust mask, and eye protection be used when handling micro fibers.

PERFORMANCE CHARACTERISTICS

Compressive Strength -M100-M160

Tensile Strength - 4-10 Mpa

Flexural Strength - 12-25 Mpa

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