

APPLICATION GUIDE | 2026

Steel Fiber Application Guide

Selection considerations for tunnels, industrial floors, precast concrete, UHPC and infrastructure.

Specialized steel fiber export supply from China

Application overview

Steel fiber selection begins with the concrete system and required performance. The product family is only one part of the design decision.

Tunnel and shotcrete

Hooked end or glued hooked end fiber

Consider residual performance requirements, aggregate size, pumping and spraying equipment, fiber length, dosage and the specified acceptance test.

Industrial flooring

Hooked end, corrugated or glued fiber

Review slab design, joint strategy, loading, concrete strength, placement method, finish and required crack-control performance.

Precast concrete

Straight, hooked end or micro steel fiber

Consider plant dosing, mixing sequence, component geometry, surface finish, demoulding and performance testing.

UHPC and RPC

Copper coated micro steel fiber

Dense matrices require controlled micro-fiber dimensions, high tensile strength, reliable dispersion and moisture-protected packing.

Road and bridge concrete

Hooked end or corrugated fiber

Review fatigue, impact, overlay thickness, placement, exposure and project-specific standards.

Project review checklist

1. Define required concrete and structural performance. 2. Confirm the applicable test method and acceptance criteria. 3. Review fiber geometry against aggregate size and placement equipment. 4. Plan the dosing and mixing sequence. 5. Complete representative mix trials. 6. Confirm packaging, storage and shipment requirements.

Engineering responsibility

Final structural design, fiber dosage and acceptance remain the responsibility of the qualified project engineer and concrete producer. This guide is for purchasing discussion and does not replace project design.