






Fiber Reinforced Concrete with high amount of fibers > 60Kg/m³ (typical dosage is between 20 to 40kg/m³)

- **SCC:** flow greater than 65cm with 2 hours workability retention.
- **Industrialization:** based on ease of manufacturing in RMix plant and pumpable.
- Mix design and fiber selection/composition increases **strength** and **ductility** (not common behavior).
- Design to replace **steel rebars**.
- **Application:** Industrial pavement, thin elements, vertical wall.

	Challenge	Key Benefits	Technical Advantage
	High strength and ductility structures	<ul style="list-style-type: none"> • Hyper-Performance Fiber Reinforced Concrete. 	<p>Self consolidating concrete Slump flow > 65cm</p> <p>Low Viscosity V-funnel < 20sec</p> <p>Compressive strengths From 30MPa to 150MPa @ 28 days</p> <p>Flexural Strengths From 3MPa to 30 MPa @ 28 days</p> <p>Homogeneous dispersion of fibers</p>
	High rise buildings, narrow supports, complex formworks	<ul style="list-style-type: none"> • Reduce / avoid use of steel rebar. 	
	Job safety	<ul style="list-style-type: none"> • Less personal required when working in height. • Less risk of white finger syndrome. 	
	Low maintenance	<ul style="list-style-type: none"> • Improve crack resistance • Less joints 	
	Green label	<ul style="list-style-type: none"> • Reduce steel ratio in concrete structure 	