

Be it durable infrastructure made of **SHCC**, decorative façades made of **UHPC** or offshore substructures made of **LWAC**: Superior concrete structures are extremely important in many areas today.

KURALON™ is a synthetic fiber spun from Polyvinyl Alcohol (PVA) that has an excellent adhesion to cement matrix, resists alkali, corrosion and UV light.

Concrete systems reinforced with **KURALON™** fibers have significant advantages in environmental, mechanical and cost performance.

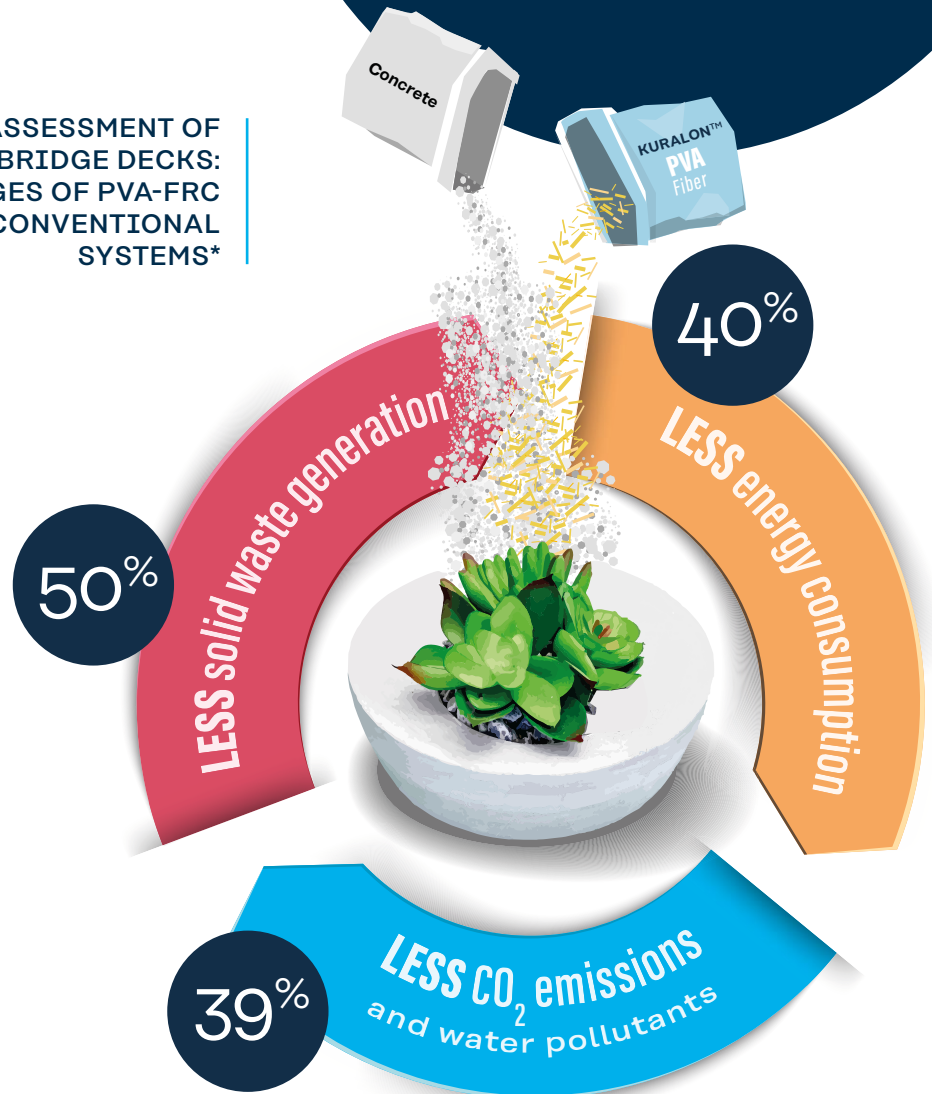
Sustainable construction requires advanced materials.

KURALON™ PVA fiber for pioneering construction projects

LIFE CYCLE ASSESSMENT OF BRIDGE DECKS: ADVANTAGES OF PVA-FRC OVER CONVENTIONAL SYSTEMS*

BENEFITS FOR SUSTAINABLE CONSTRUCTION:

- LESS RAW MATERIAL CONSUMPTION
- LESS MAINTENANCE AND CONSTRUCTION
- BETTER TRAFFIC FLOW



SHCC: Strain Hardening Cementitious Composite
 UHPC: Ultra High-Performance Fiber-Reinforced Concrete
 LWAC: Lightweight Aggregate Concrete
 FRC: Fiber-Reinforced Concrete

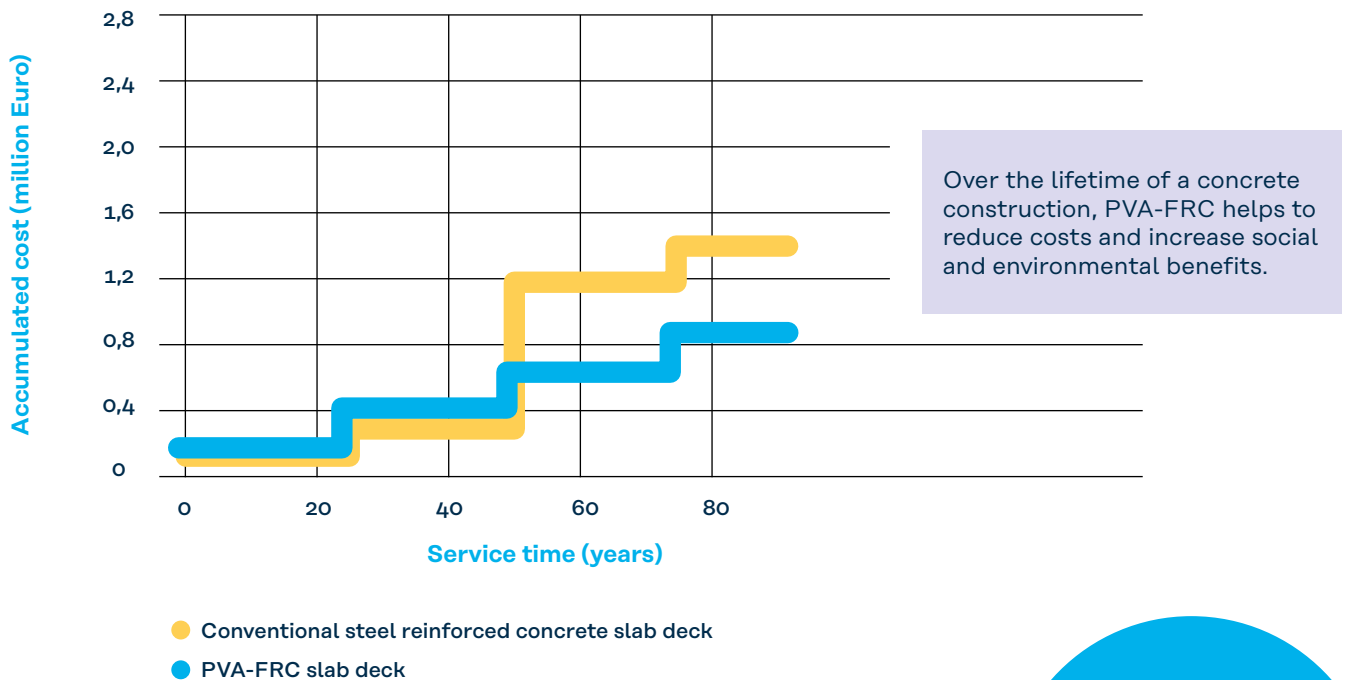
*Keoleian, G.A. and V.C. Li, et.al. (2005). "Life-Cycle Cost Model for Evaluating the Sustainability of Bridge Decks." This research was conducted by the University of Michigan.

KURALON™ Focus on lifelong benefits

With its crack control, which can help self-healing of concrete, **KURALON™** ensures **superior bending toughness, damage tolerance and ductility** under demanding conditions including dynamic shear loads, salt water and anti-freeze chemicals.

KURALON™ is the ideal reinforcement material to create **lightweight, durable and low maintenance concrete structures**.

LIFE CYCLE COST ANALYSIS OF A PVA-FRC BRIDGE SLAB DECK COMPARED TO CONVENTIONAL CONSTRUCTION.



KURALON™ helps to extend service life and drives sustainable investment decisions.

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