

# MAXtect™

Ultimate-performance concrete

## ULTRA-HIGH STRENGTH, DUCTILITY, AND DURABILITY

MAXtect combines the revolutionary technologies of an ultra-high-performance cementitious matrix and high-strength fibers, providing maximum performance in mechanical properties, durability, and aesthetics.

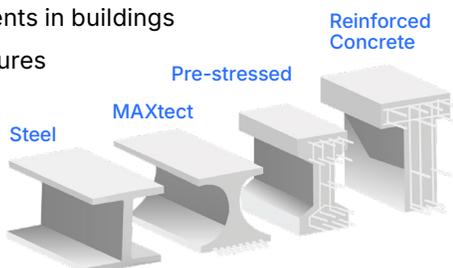
### Primary Features

- Ultra-high performance concrete (UHPC) with compressive strengths up to 150 MPa
- Outstanding mechanical and durability performance
- Compressive, tensile, and flexural strengths, combined with its high abrasion resistance and low permeability, make it highly suitable for some of the most demanding structures
- Advanced particle packing models allow for very low water-to-cement ratios with discontinuous porosity, allowing for ultra-high strength, increasing capacity or reducing geometries, and an ultra-dense, ultra-low permeability for incredible durability and a very long service life

### Project Applications

MAXtect is best for structures with stringent requirements, including:

- Bridges (Precast connections, overlays, jacketing and repairs)
- Architectural cladding panels
- Structural elements in buildings
- Hydraulic structures
- Industrial slabs



### Additional Information

- MAXtect is a highly innovative concrete whose composition and superior performance are the result of improved microstructural properties, through the use of microparticles, SCMs, and advanced particle packing models
- High fiber content: the high fiber content of 1 to 4% by volume gives the structure high ductility as well as strain-hardening behavior, depending on the variety
- The elements are reinforced both inside and on the surface thanks to the homogeneous distribution of fibers. The efficiency of fibers in MAXtect depends on material, content, geometry, distribution, and orientation
- Contractors, precasters, and owners can expand their businesses by relying on MAXtect, which facilitates the design and execution of highly demanding applications that are difficult or impossible to achieve with conventional concrete

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## Product Range

MAXtect is available in the following variants:

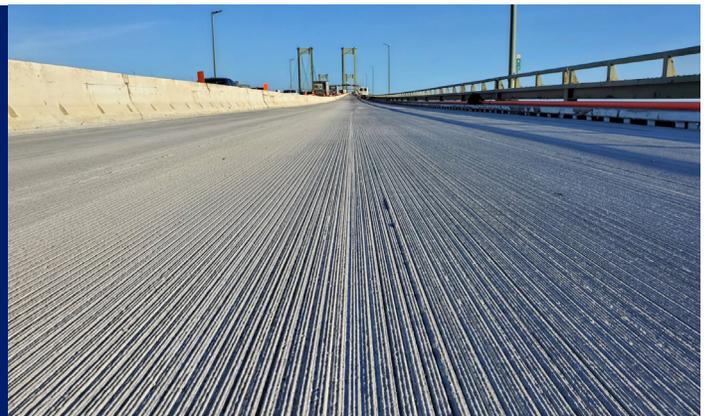
### MAXtect for Infrastructure

Address the most challenging structural and durability challenges with high-strength, ductile, and self-compacting solutions. Whether precast or poured in-situ, these can meet the most demanding requirements – regardless of complexity.



### MAXtect for Overlay

Fast-track your construction process and reduce the amount of material needed for your structure with this thixotropic technology, guaranteeing a maximized lifespan and minimized maintenance over time.



### MAXtect for Architectural

Bring unique architectural visions to life to withstand the test of time, from complicated facade patterns to ultra-thin cladding and shell canopies. Available as a white base for pigmenting to any color imaginable.

