

ARCHITECTURAL APPLICATIONS

UHPC BY VICAT



UHPC SMART-UP

Creative concrete, Smart-Up embodies modernity with solutions that meet all architectural requirements and align with construction trends by enhancing mineral materials.

Valued by architects for façade elements, Smart-Up UHPC enables the design of modern and timeless creations. Its diverse appearances and ability to take on complex shapes provide limitless creative freedom.



FORMULATION

- Cementitious matrix with a micrometric structure
- High dosage of cement and additives
- Fine aggregates
- Highly microfibers dosed
- Additives and water

A dense, reinforced, and durable matrix capable of withstanding the most extreme stresses.

BENEFITS



Aesthetics

- Great freedom of shape and texture
- Unique elements



Lightness and slimness

- Fine and precise details
- Reduced thicknesses
- High strength
- Reduction of structural loads



Design flexibility

- Self-leveling behavior
- Modularity: great flexibility in design
- Prefabrication of facade elements
- Quick installation on site
- Reduction of construction timeframes
- Excellent demolding resolution
- Material tintable throughout



Durability and performance

- Water impermeability
- Resistance to chemical and external aggressions
- Insensitivity to freeze thaw cycles
- Tensile yield strength > 8,5 MPa
- Mechanical strength > 130 MPa



APPLICATIONS ARCHITECTURAL

Thanks to their remarkable ductility and fluidity, UHPC pave the way for unique facades, sunshades, and decorative elements. Their exceptional performance and weather resistance make them an ideal solution, providing architects with increased design freedom.



Building envelope

Cladding panels, sunshades, perforated facades, prefabricated frames



Roofing

Sleek roofs, awnings



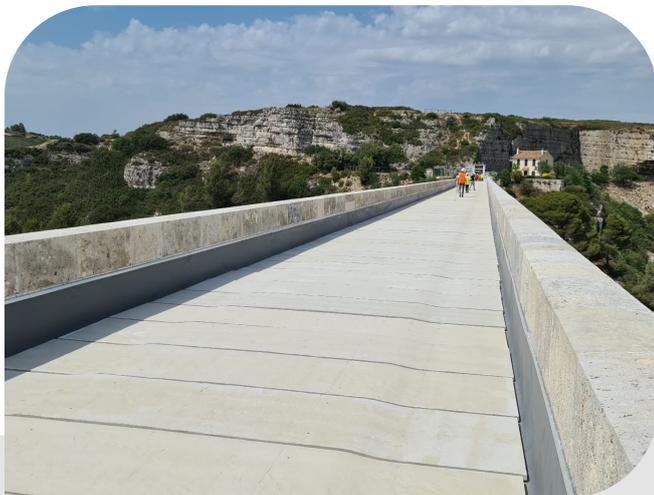
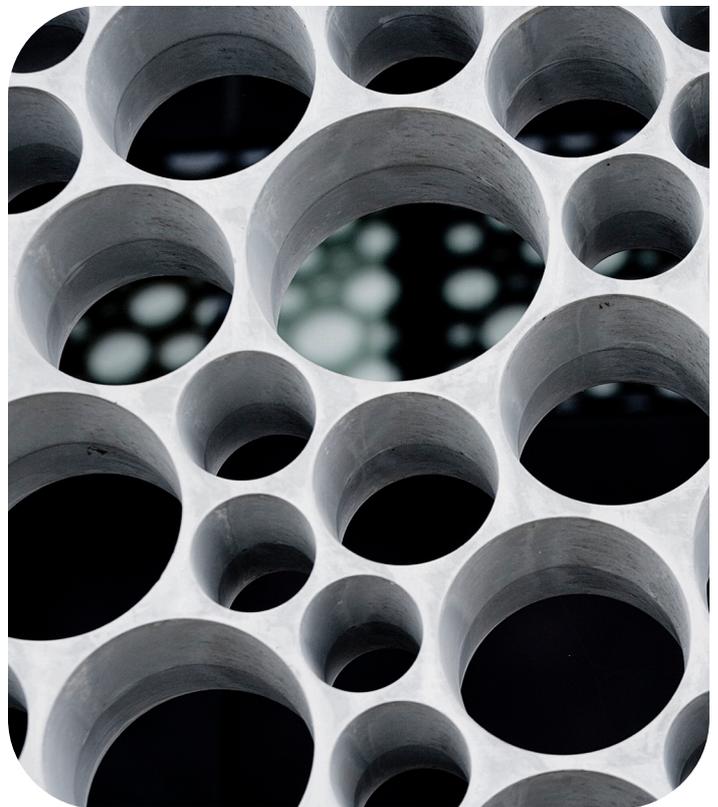
Load-bearing structure

Columns, cantilever elements



Architectural circulation elements

Balconies, walkways, stairs, flooring



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