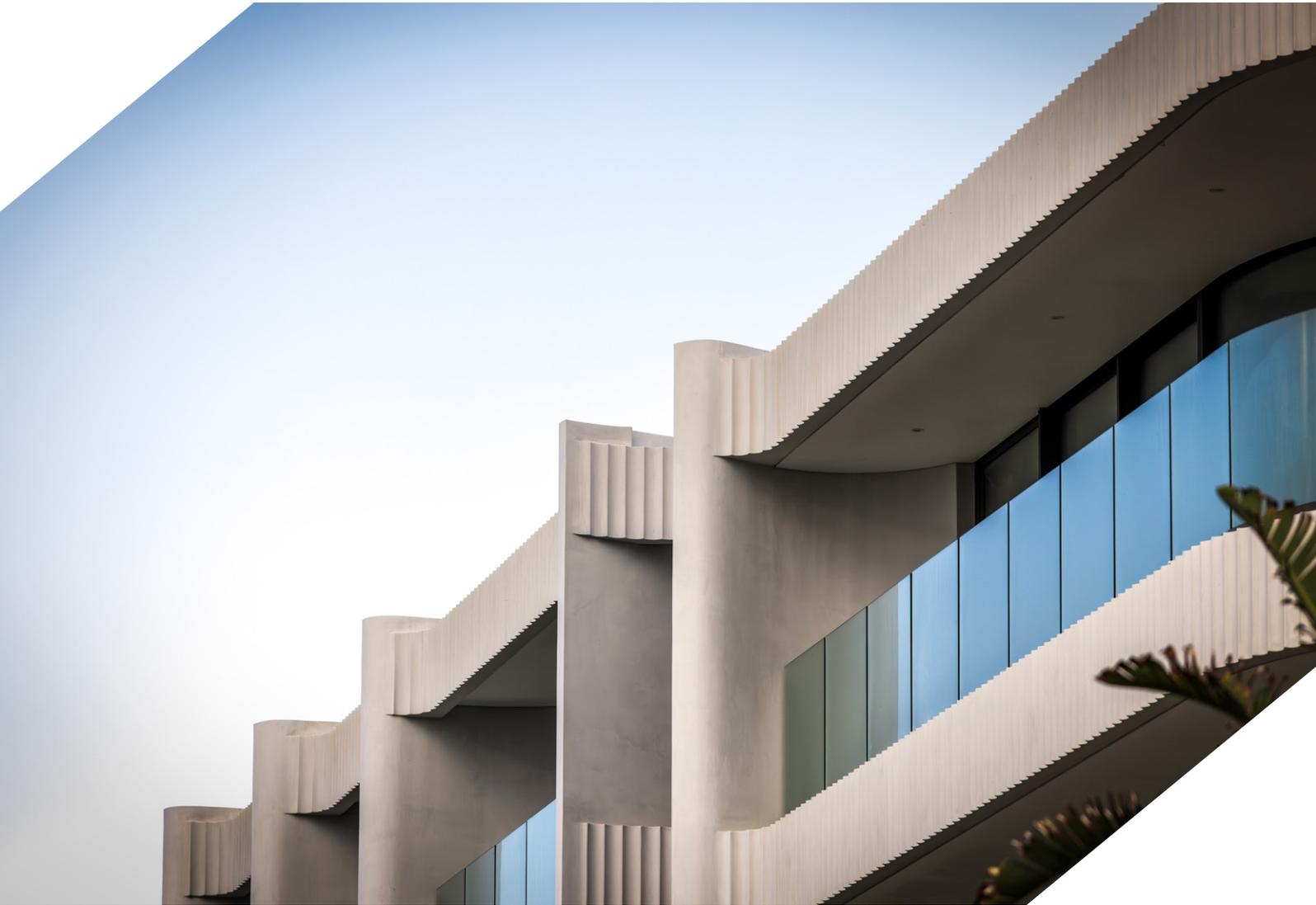


LUMINA
Architectural Concrete



The Architecture of Light

Integrally colored concrete with high architectural value
and high durability

 **INTERBETON**
A TITAN GROUP COMPANY

Stability, Durability, Aesthetics

LUMINA is an architectural, integrally colored ready-mix concrete, specially designed for exposed (fair-faced) concrete elements of high aesthetic quality. It delivers balanced, refined surfaces that highlight the building's lines, volumes, and shadows in dialogue with light. Suitable for both interior and exterior applications, it enables a language of architecture that is minimal yet expressive, with a distinctive industrial character.

Used across the full range of architectural scales—from interior surfaces to external façades of residential or commercial buildings—and combined with appropriate formwork and surface finishing, LUMINA guarantees a structure that is:

- durable over time
- requires minimal maintenance
- and preserves its architectural intent throughout its service life.

Its surface interacts with geometry, light, and time, creating spaces that breathe, transform, and faithfully express the architect's vision.

Light, Texture and Architectural Freedom

LUMINA is available in earth tones and shades of white, depending on the locally available aggregates. It allows designers and architects the freedom to realize concepts that would be difficult or impossible with other materials. The combination of:

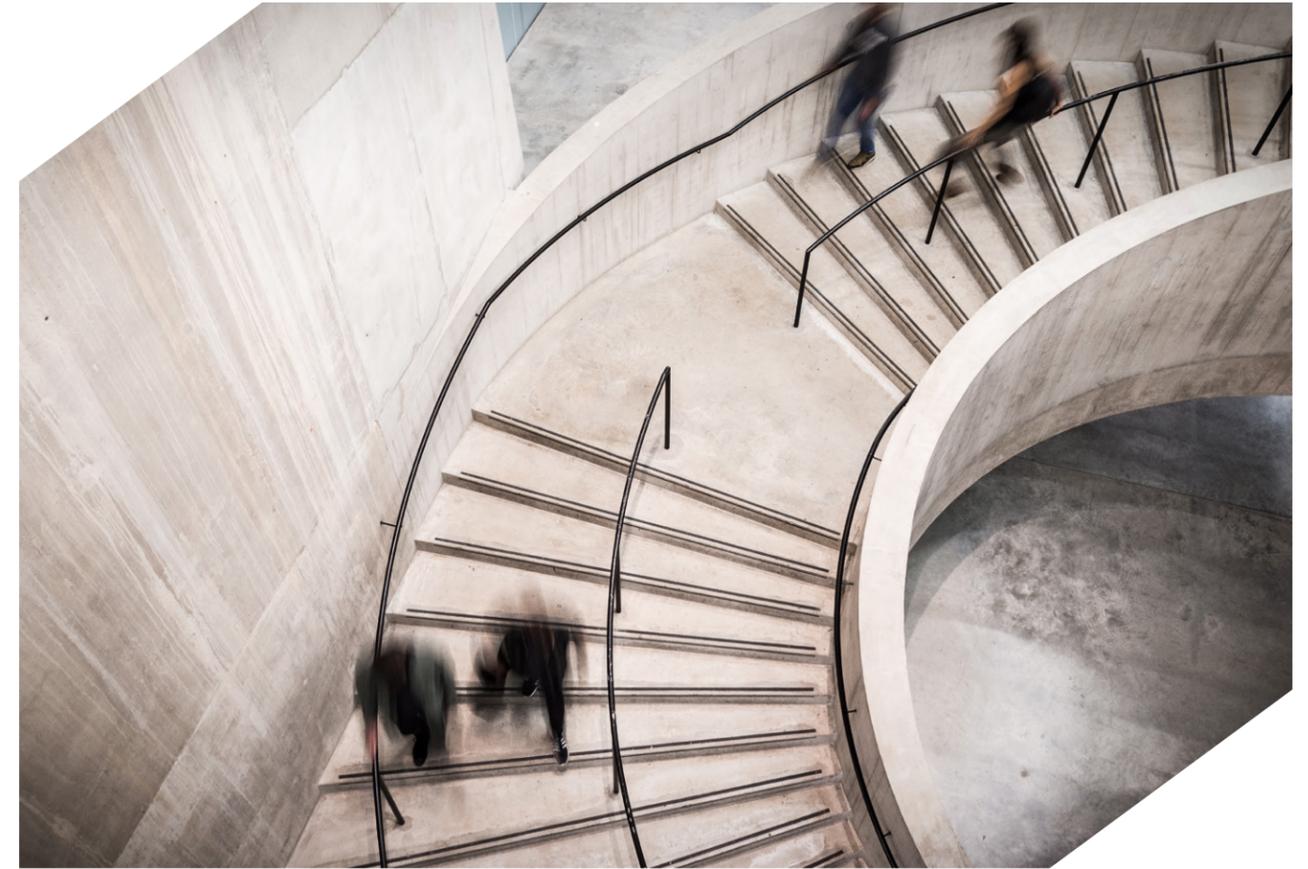
- colour range
- customizable mix design
- and the continuously evolving expertise of INTERBETON in high-performance concretes allows the creation of structures with unique architectural value.

Fair-faced concrete is not just a finish; it is a complete construction philosophy that unifies structure, protection and aesthetics in one monolithic, enduring solution.

It is an honest material that reveals the structure rather than hiding it, working with light, texture, and colour to give the project a living, ever-changing presence. With:

- long-term durability
- minimal maintenance
- and low environmental footprint,

LUMINA is an ideal choice for projects with strong architectural identity and environmental responsibility.



Key BENEFITS

Architectural Freedom & Authentic Expression

LUMINA highlights the geometry, lines, and shadows of the project, enabling complete creative freedom for curved, complex, or minimalist forms.

Timeless Aesthetics & Durability

Its composition preserves the architectural intent for decades, without additional coatings or frequent maintenance, ensuring long-term stability and natural beauty.

Sustainability with Material Honesty

As an honest, monolithic material, LUMINA exposed concrete reduces the need for extra finishes, waste, and CO₂ emissions, combining high aesthetics with responsible construction.

* Environmental Product Declarations (EPDs) are certified documents that transparently present a product's environmental performance across its entire life cycle, including CO₂ emissions, energy use, raw materials, and other indicators, in accordance with international standards.

Technical Performance with Flexibility

LUMINA is engineered to deliver excellent mechanical performance and high surface stability. Thanks to its mix design, it meets the demands of both aesthetic quality and structural safety, while remaining adaptable to the needs of each project.

Technical Characteristics

- Available strength classes: C25/30, C30/37, C35/45
- Workability: S4
- High long-term durability
- Reflectance indices available depending on mix design and local raw materials
- Service life > 50 years with minimal maintenance, improving total life-cycle cost by around 20%
- Reduced maintenance costs thanks to the inherent durability of the material
- Reduced need for reconstruction or repair, significantly limiting failures over time
- Reduced porosity, homogeneous texture and increased resistance to:
 - cracking
 - carbonation
 - chloride ingress.

Available Options

- Grey and earth tones, with the possibility of custom colour interventions
- Tailored aggregate grading depending on the application
- Surfaces with natural aggregates for a more organic result



For more information, please refer to the LUMINA Technical Description brochure.



Aesthetic Advantages

LUMINA exposed concrete is more than a structural material; it is a holistic construction and design approach that unifies structure, skin, and expression in a single, durable, and timeless solution.

Its specific composition and plasticity allow the creation of surfaces that directly reflect the architectural intent, whether:

- pure, minimalist volumes
- or more complex geometries.

In interior spaces, it reinforces an industrial or contemporary character; on façades, it highlights the building's geometry and lines through light and shadow. LUMINA offers architectural freedom to orchestrate light, form, and colour, creating unique compositions and a strong identity.

- Emphasizes architectural lines and volumes, enhancing geometry through light interaction
- Balanced, uniform final surface; the monolithic nature of LUMINA delivers architectural calm, with fewer lines and greater clarity of form
- High plasticity, enabling complex or curved shapes without loss of precision
- Multi-layered aesthetic identity, supporting minimalist, contemporary and industrial expressions
- Possibility of textured or patterned finishes, where each subtle variation in formwork or texture becomes a narrative rather than a defect

LUMINA is an ideal choice for architects and engineers who seek high aesthetic concrete, outstanding durability, and unmatched design flexibility. With LUMINA, every project gains character, longevity, and a distinctive identity.

Sustainable Construction through Materiality, Simplicity & Longevity

The carefully engineered composition of LUMINA provides very high durability, ensuring long-term performance and minimal maintenance needs. Optimized use of raw materials and the ability to adapt the mix to local conditions contribute to:

- Improved sustainability of the project
- Reduced environmental footprint

Durability extends throughout the building's lifecycle, supporting circular-economy principles and the responsible use of resources.

LUMINA COLOR – Persistent Tone, Lasting Performance

LUMINA COLOR is designed for sustainable construction, offering:

- long-term performance
- and reduced environmental impact

Its colour stability, combined with a durable composition, ensures that surfaces maintain their original appearance without frequent repainting or resurfacing.

Key Sustainability Aspects (LUMINA & LUMINA COLOR)

Reusability – fully recyclable at end of life

As concrete serves both as a structural frame and a final surface, it can be easily crushed and reused as aggregate in new production, supporting circularity.

No additional finishes – material and CO₂ savings

The absence of plasters and claddings reduces material consumption, transport, waste, and the overall carbon footprint of the envelope.

Timeless aesthetics without maintenance

Exposed concrete does not peel, does not need repainting, and does not disintegrate, preserving architectural intent for decades and enhancing sustainability during operations.

Recycling and reuse

At end of life, it can be crushed and reused as aggregate in new concrete, reinforcing the circular economy.

Local production – low transportation footprint

Produced and used locally, reinforcing the local economy and reducing emissions from logistics.



Fields of Application

- Interior and exterior façades of residential or commercial buildings
- Exposed surfaces in high-end architectural projects
- Concrete elements with industrial or minimalist architectural character
- Textured constructions using custom formwork
- Special morphologies and curved or free-form structures

On-Site Advantages

LUMINA offers significant benefits during application, combining ease of use, durability and high aesthetics. Its unique composition ensures excellent performance even in demanding or curved formwork, while the uniformity and precision of the final surface reduce the need for additional treatment.

From mix design to final casting, LUMINA provides:

- Flexibility in casting complex or curved formwork
- High durability that reduces maintenance needs throughout the life of the structure
- No need for plasters, cladding, or other coverings—saving 30–50% of application and construction time
- Consistent quality, uniform appearance, and stable color
- Adaptable mix design according to project requirements through a dedicated technical study
- Long-term reinforcement, protection, and preservation of structural integrity

Contact our team for more information
on how LUMINA can support your project.

main@interbeton.gr

The Company assumes no responsibility for the correct application, placement, curing, or final use of the product. Any information provided in the Company's brochures and technical descriptions concerning the application and final use of the product is given in good faith and based on the Company's current knowledge and experience with the product. Under no circumstances shall such information constitute any liability on the part of the Company for potential deficiencies in the application, placement, curing, or final use of the product. Reproduction or reprinting, in whole or in part, of this document in any form is strictly prohibited without the prior written consent of INTERBETON.

INTERBETON
22A Halkidos Str.
11143 Athens
T. +30 210 2591 111
interbeton.gr

