UNILOX INDUSTRIAL CORPORATION

UNIQUE. INNOVATIVE. COMMITTED.

HYPERMIX
CONCRETE RE-ENGINEERED

Ultra-High Performance Concrete

ENGINEERED FOR STRENGTH. DESIGNED FOR DURABILITY.

UNILOX

UNILOX INDUSTRIAL CORPORATION

194 M. Concepcion St., San Joaquin, Pasig City

(+632) 8641 - 1001

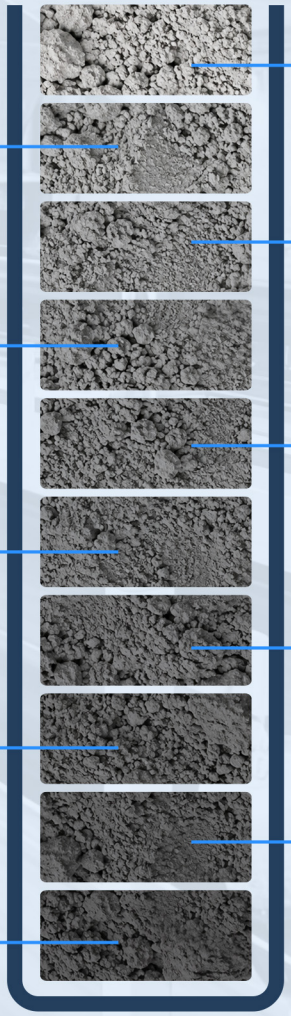
unilox.com

PRODUCT & TECHNOLOGY

HIGH-PERFORMANCE CONCRETE, ENGINEERED FOR DEMANDING APPLICATIONS.

HIPERMIX is a pre-blended Ultra-High Performance Concrete engineered for applications requiring exceptional mechanical strength, long-term durability, and resistance to harsh service conditions. Its ultra-dense matrix is designed to provide high compressive strength together with excellent workability and dimensional stability.

Why HIPERMIX CONCRETE RE-ENGINEERED



APPLICATION VALUE

HIPERMIX COMBINES HIGH STRENGTH, LOW PERMEABILITY, ABRASION RESISTANCE, AND DURABILITY IN A PRE-BLENDED MATERIAL INTENDED FOR DEMANDING SERVICE CONDITIONS.

APPLICATIONS

ONE MATERIAL. MULTIPLE APPLICATIONS.

HIPERMIX is designed for critical structural, industrial, infrastructure, marine, precast, and specialized applications where high strength and durability are required.

STRUCTURAL APPLICATIONS

- Precast structural elements
- Structural repair and rehabilitation
- Specialized structural applications

INDUSTRIAL APPLICATIONS

- Industrial flooring
- High-abrasion industrial components

INFRASTRUCTURE

- Bridge deck overlays
- Infrastructure repair and rehabilitation

SPECIALIZED

- Thin architectural panels
- Blast and impact-resistant structures

MARINE & COASTAL

- Marine structures
- Coastal structures

PERFORMANCE AT A GLANCE

100–120 MPa
Typical 28-Day Compressive Strength

70-90 MPa
7-Day Compressive Strength

15–30+ MPa
Flexural Strength with Fiber

<2%
Water Absorption

7-15+ MPa
Tensile Strength with Fiber

APPLICATION / TECHNICAL SUMMARY

FROM MIXING TO PERFORMANCE

1 MIX	Dry mix for approximately 2 minutes. Gradually add 80–90% of the required water, then add the remaining water slowly until the desired flowability is achieved.
2 FIBERS	Introduce steel fibers gradually, if required.
3 FINAL MIX	Continue mixing up to 10 minutes.
4 PLACE	Place immediately after mixing. Use light vibration if necessary, avoid segregation, and finish the surface as required.
5 CURE	Moist curing for a minimum of 7 days is recommended. Steam curing may be used for precast applications.



WATER DOSAGE

7.5–9.5% by weight of the dry mix. Do not exceed the recommended water content, as excessive water may reduce strength and durability.



PACKAGING & STORAGE

- 25 kg bags
- 1,000 kg jumbo bags available upon request
- Shelf life: 6 months in unopened original packaging
- Store in a cool, dry, and covered location



TECHNICAL NOTE

Typical laboratory values are provided for reference. Actual performance may vary depending on intended application, material selection, mixing procedures, placement techniques, curing conditions, and site-specific factors.



SAFETY

Use appropriate PPE when handling the product. Avoid inhalation of dust and prolonged skin contact. Refer to the SDS before use.

R&D APPLICATION: UNDERWATER CONCRETE

HIPERMIX is currently being developed for potential underwater applications, with the objective of maintaining high-performance concrete characteristics in submerged and challenging environments.

POTENTIAL APPLICATIONS

- Underwater repair and rehabilitation
- Submerged mining structures
- Marine and offshore structures
- Underwater foundations and infrastructure
- Areas exposed to continuous water immersion

DEVELOPMENT FOCUS

- Placement and workability underwater
- Resistance to washout and segregation
- Strength development under submerged conditions
- Bonding and adhesion to existing concrete
- Durability in continuous immersion