# SEAprint: Seafloor Extracted Aggregate for Printing Concrete

## IN-PLACE CONSTRUCTION, WITHOUT THE LOGISTICS BURDEN

SEAprint transforms local aggregates and seawater into structural concrete, enabling rapid in-place construction in remote, underwater, and logistics constrained environments.

## IN-PLACE CONCRETE PRINTING

SEAprint builds concrete structures directly in place, eliminating traditional formwork and reducing reliance on transported prefabricated components. The system enables precise, controlled additive construction in coastal, subsea, and expeditionary environments.

## RESOURCE-OPTIMIZED CONCRETE MIX

The SEAprint concrete formulation leverages locally sourced seabed or terrestrial aggregates and seawater, minimizing binder requirements and eliminating the need for fresh water. Mix designs can be tailored to site-specific materials while maintaining structural performance.

## CONTAINERIZED SYSTEM

Compact, ISO-containerized equipment supports rapid mobilization and deployment from shore or vessel, reducing heavy lift requirements and overall logistics footprint.



## OPERATIONAL ADVANTAGES

- Reduces expeditionary logistics
- Minimizes transported materials
- Eliminates fresh water use
- Eliminates reliance on prefabricated concrete structures
- Enables rapid infrastructure development in remote locations
- Supports resilient coastal and forward-operating installations

## APPLICATIONS

- Expeditionary and forward-operating infrastructure
- Coastal protection and shoreline stabilization
- Artificial reefs and habitat restoration
- Remote island and disaster-response construction
- Marine energy foundations and anchoring systems

MAKAI OCEAN ENGINEERING

www.makai.com | +1 808-259-8871

***Contact us today!***

Hermann Kugeler
VP of Business Development
hermann.kugeler@makai.com