

## Polymers and additives for low pH concrete and draining cementitious materials for marine engineering and coastal defence structures

**Sector:** Marine infrastructures

### Short description of the needs:

NeoGeo Srl designs and patents solutions for coastal erosion mitigation, climate resilience of port infrastructure, and anchoring of floating platforms for offshore wind farms, supported by full-scale (1:1) testing and prototyping activities. The company designs products to protect and restore biodiversity in coastal areas, both emerged and submerged. The primary innovation concerned the research of polymers, biopolymers, and additives capable of modifying the chemistry of cementitious matrix used in marine works, reducing its alkalinity to neutral or slightly basic values in order to minimise the impact on the acidification of seas and oceans. Meanwhile, the company aims to increase the durability and mechanical performance of an existing high-permeability draining cementitious composite through the use of polymeric and bio-based modifiers, for applications such as submerged structures and fish-repopulation habitats. Scientific partners, material suppliers and testing laboratories are required for formulation, durability testing in a marine environment and validation on real-scale prototypes and pilot installations in port and coastal areas.

**More info:** For more information apply to [eccentric@imast.it](mailto:eccentric@imast.it)

**Company:** NeoGeo S.r.l.

**Point of contact for the brief/challenge:** IMAST - High Tech District on Engineering of Composite Materials and Polymers

**Company position in the value chain:** OEM