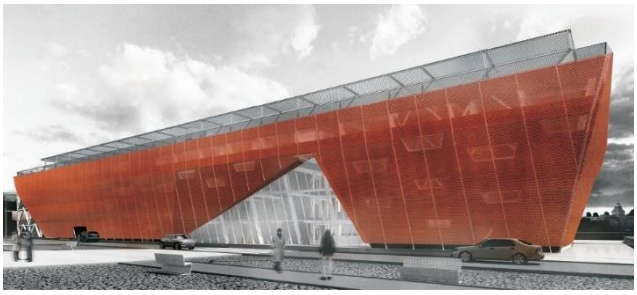
PROJECT REPORT

KRYSTALINE WATERPROOF CONCRETE

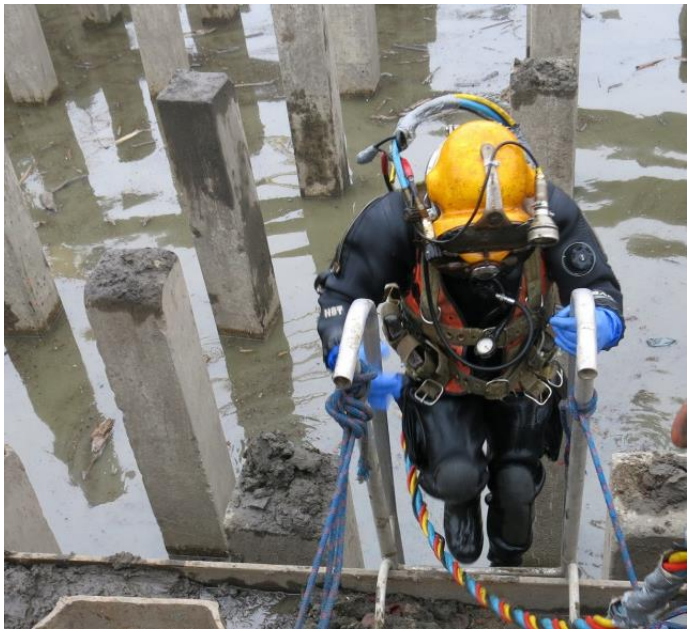
Morskie Centrum Nauki (Szczecin, Poland)

Classification	New construction
Type of structure	Museum
Place/Time	Szczecin, Poland January 2020 - 2021



Project	The Maritime Museum and Science Center in Szczecin (Morskie Centrum Nauki as per the original Polish name) enjoys a modern design, resembling a ship's hull with a height of 14 meters and a length of 122 meters. Located on the right bank of the West Oder River, with the city center and old town on the other side of the river, this museum is set to become a modern icon of Szczecin. It will contain multimedia and traditional exhibits related to the sea, boatbuilding and sailing as well as a planetarium. On the roof there will be an observation deck and a restaurant. The Maritime Museum and Science Center will be open to the public in 2021 totaling 10.000 m² of floor space.
Purpose for application	While Krystaline Add1 was used in the concrete to provide an effective waterproof protection for the concrete, it also served an important secondary purpose. Since part of the concrete was poured underwater, the concrete required a viscosity modifier to be effectively placed in this environment. Krystaline Add1 not only waterproofs concrete in an aggressive environment such as this one, it also functions as a viscosity modifier creating a flowable yet cohesive concrete eliminating the need for the addition of a very expensive viscosity modifier.
Application	**Krystaline Add1** was added at the plant during the batching process in 1 kg water soluble bags, and was used as the sole waterproofing system in this extremely demanding aggressive environment.

Underwater concreting by specialized commercial divers:



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Overview of progress as of early 2020: