

Governors Island Seawall

New York, USA (2014)

BACKGROUND

The first part of Governors Island's 2.2 mile seawall rehabilitation began in the middle of 2013. The construction was critical in ensuring that this part of the Island stays in place and does its job in keeping the Island together. The revetment is a sloped stone abutment that needs to be able to handle the heavy waves of the ocean, and have an ability to be maintained. On the north side of the Island, the original seawall needed further support and repairs to ensure it can handle the constant bombardment of the sea.

However, in order to ensure the 120+ year old structure is able to sustain well into the future, systems needed to be used that rebut the infiltration of water into the concrete extension and original seawall, as well as being resilient to weathering action year round. An innovative solution was needed.

SOLUTION

The New York City Economic Development Corporation (NYC EDC), the owner of the project decided to use Kryton's Krystol Internal Membrane™ (KIM®) waterproofing admixture for the new and old sections of the seawall. As KIM is added directly to the concrete mix, the installation of an external membrane and coatings was not needed. Over 2,000 yd3 (1,530 m3) of KIM concrete was poured to form the seawall and protect the Island.

The original structure also needed to use the Krystol Leak Repair System™ in order to refurbish the existing 120+ year structure in place. The Leak Repair System is the complete way to repair cracks and create durable, waterproof structures. The leak Repair System is also able to withstand the constant bombardment of heavy waves the seawall will face, ensuring it will last for another 120 years. As of writing, both KIM and the Leak Repair System are working as originally specified.

OWNER/DEVELOPER:
New York City Economic Development Corporation (NYC EDC)

CONTRACTOR:
Stanska USA Commercial Development

DISTRIBUTOR:
New England Dry Concrete (NEDC)

PRODUCTS:
Learn more at kryton.com
Krystol Internal Membrane™ (KIM®)
Krystol Leak Repair System™



Over 2,000 yd3 (1,530 m3) of KIM concrete was used for the rehabilitation project.



Kryton's Leak Repair System is able to withstand the constant water pressure the ocean puts on a seawall.