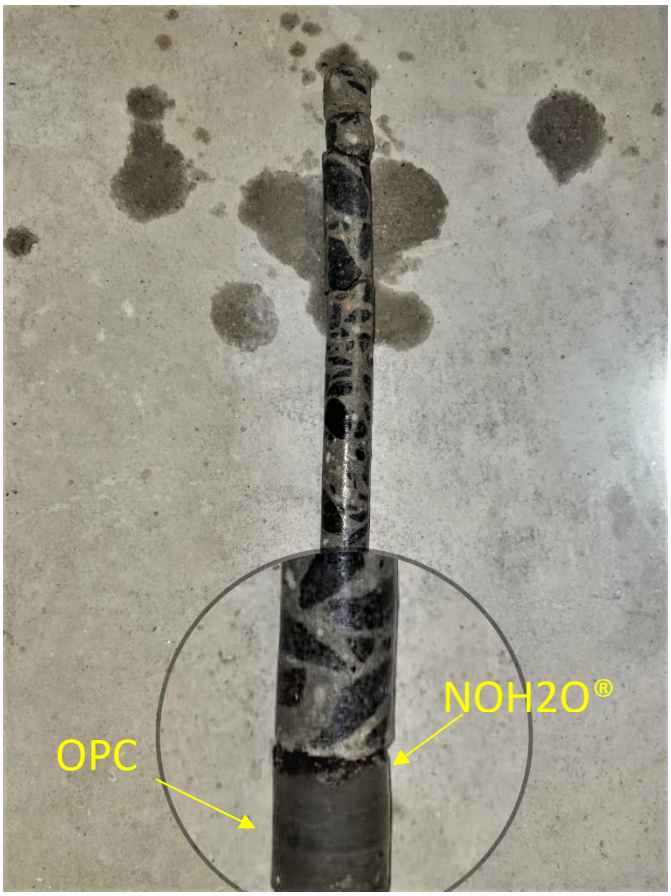
32-02 Vernon Blvd.
Astoria, NY 11106

www.sovereignhydroseal.com
info@sovereignhydroseal.com
(646) 649-5878

2020 MTA Bridges and Tunnels – Verrazzano Bridge Toll Collection Tunnel

Concrete core taken after OPC and NOH2O® injection



Highlights

- Combined use of NOH2O® and Ordinary Portland Cement (OPC) as a positive side, curtain grouting, leak remediation application
- NOH2O® forms a waterproofing membrane along the outer utility tunnel structure
- Schedule driven performance to ensure completion in time for the summer Holiday season

Project Overview

The Verrazzano Narrows Bridge Toll Plaza Utility Tunnel has suffered significant water infiltration since its construction As part of an overall bridge rehabilitation program, Sovereign was tasked to ensure the Toll Plaza Utility Tunnel provides a long-term dry environment for existing and future communication, surveillance, and power systems.

Strategy

Sovereign was tasked to engineer a cost effective solution and, based on extensive research and development, designed a combination of OPC and NOH2O® to cost effectively fill voids at the interface of the outside tunnel structure and surrounding soils/rock and mitiagate water infiltration.

Results

Work was successfully completed in 12 weeks, in time for the summer Holiday season. OPC cost effectively filled voids behind the concrete tunnel structure, created a waterproofing membrane protection layer under which an NOH2O® waterproofing membrane formed, rendering the tunnel dry.