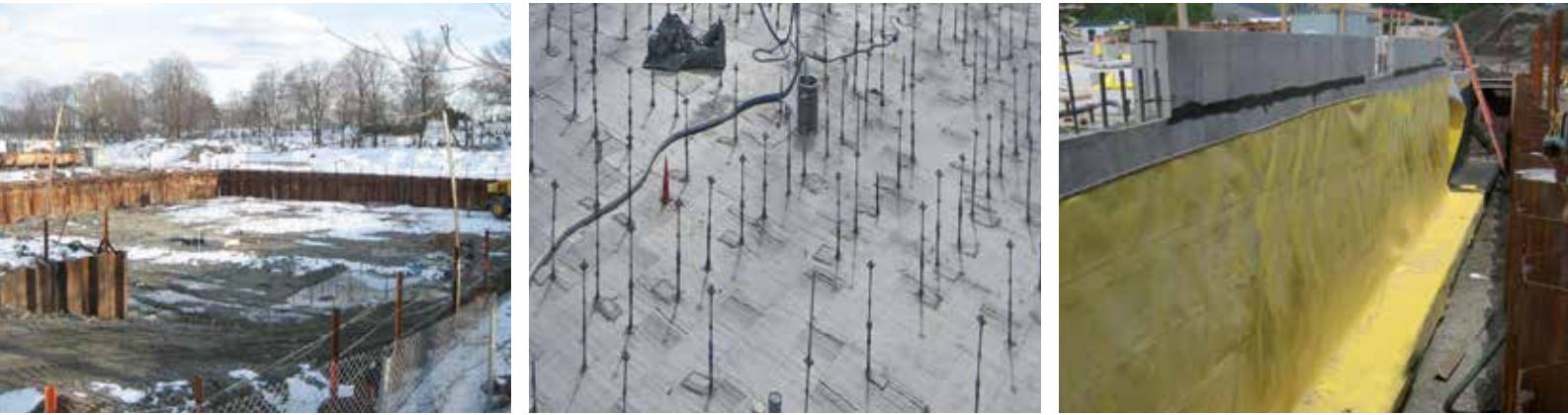


CASE STUDY



PROJECT

Hills School gymnasium and parking garage addition – Harvard University

LOCATION

Cambridge, Massachusetts, USA

PRODUCTS

COREFLEX®
ULTRASEAL®
SWELLTITE®
VOLTEX® DS
WATERSTOP-RX
HydroShield™
Quality Assurance Program

CHALLENGE:

High Hydrostatic conditions, hundreds of slab penetrations, poor site and weather conditions.

SOLUTION:

The Shady Hills School addition, a gym with a garage beneath it, was integrated into an existing structure 11 feet below the water table. The original specification called for ULTRASEAL® below slab with a layer of VOLTEX® DS installed over it to provide protection from subsequent concrete operations. Additionally, SWELLTITE® was chosen for the portion of the gym roof that would fall outside of the gymnasium interior in a terrace type area.

Originally, there was little concern for the hydrostatic head. However, once the foundation was dug and dewatering of the site began, it became apparent that there would be significantly more water at a greater flow rate. In order to overcome the extreme hydrostatic conditions, COREFLEX® 60 was specified. COREFLEX® features welded thermoplastic membrane seams and an active polymer core liner. This design provides a continuous system with both passive and active waterproofing to ensure a dry structure.

CASE STUDY

The COREFLEX® membrane tied seamlessly into both the ULTRASEAL®, which wrapped up the footers, and the SWELLTITE®, at a grade near the top of the walls, to create the continuous system. As an additional benefit, the COREFLEX® 60 was pre-seamed into large panels in order to speed installation. The panels were then transferred to the walls and installed in 25' x 12' sections, allowing the contractor to not only keep up with the rigorous construction schedule, but to actually overtake the concrete contractor.

CETCO's breadth of products allowed for a customized, total solution for extreme conditions. Furthermore, the waterproofing was covered by the industry leading HydroShield™ Quality Assurance Program – a comprehensive program that protects structures from water ingress with design guidance, quality waterproofing products, proper installation and independent inspection.dry structure.

www.cetco.com | contact@cetco.com

UPDATED: AUGUST 2015

IMPORTANT: The information contained herein supersedes all previous printed versions, and is believed to be accurate and reliable.
For the most up-to-date information, please contact CETCO Team.
CETCO reserves the right to update information without notice.

FORM: CS_SHADYHILLS_EMEA_EN_201508_V2

