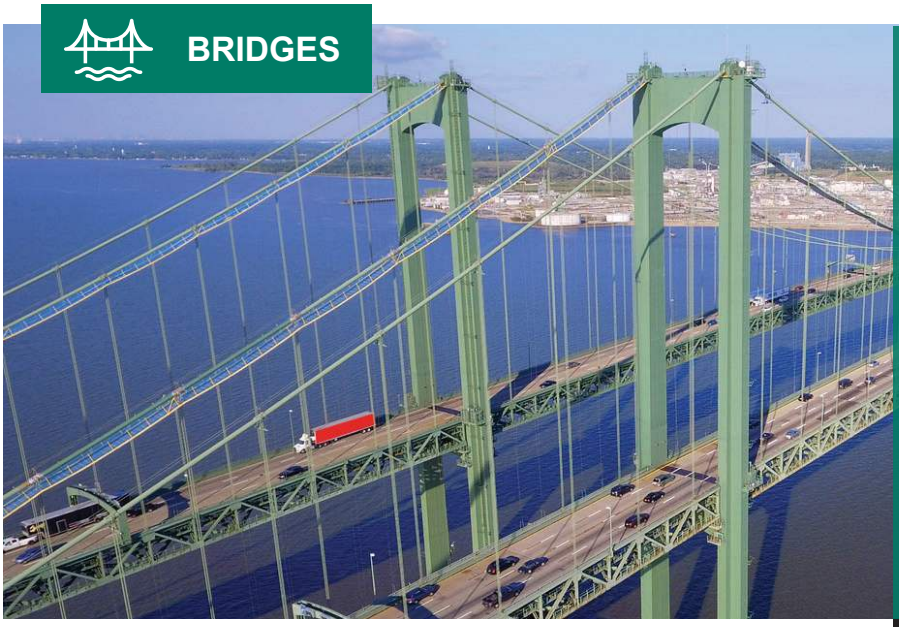
D.S. BROWN®

Project Highlight

REV 5/25

BRIDGES



> Delaware River and Bay Authority: “The dehumidification system is key to the bridge’s future. This is what infrastructure maintenance looks like.”

Delaware Memorial Bridges

Cableguard™ Elastomeric Wrap protects high-capacity bridges

Operators of the Delaware Memorial Bridges put a $35 million dehumidification plant system into operation designed to protect the twin span cables from damaging effects of moisture which over time causes corrosion.

Dehumidification works by forcing dry air through the entire length of the cable, which absorbs and exhausts moist air. The cables are made up of about 8,000 single strands of steel wire that air can travel through. In conjunction with the dehumidification plant process, Cableguard™ Elastomeric Wrap acts as a sealing system, preventing water from entering the cable.

Officials want the humidity levels in the cables to go as low as possible. Over time, use of the dehumidification system and Cableguard™ Elastomeric Wrap ensures that moisture is reduced to levels that effectively eliminate the possibility of cable corrosion.

PRODUCTS USED

Cableguard™ Elastomeric Cable Wrap System
is a long-life elastomeric wrap that protects suspension and stayed bridge cables from corrosion and reduces maintenance expense.

INSTALLATION

2017 – 2018

New Castle, Delaware

OWNER

- Delaware River and Bay Authority

CONSTRUCTION TEAM

- American Bridge

STATS

- Delaware River crossing New Castle, Delaware and Pennsville, New Jersey
- Complete cable wrap with dehumidification system – 3 ply reinforced
- Cableguard™ applied to two 4,100-foot-long cables on each of the two bridges
- Cable diameter – 21.0 inches
- Cableguard™ applied thickness - 0.090 inches
- Main span of 2,150 feet
- Opened in 1951
- 100,000 vehicles cross the twin span daily

Bridge the World with Leading Infrastructure Solutions

300 East Cherry Street • North Baltimore, OH 45872 | Phone: 419.257.3561 | dsbrown.com