

Challenge

Background

The infrastructure of a suspension bridge at the coast is subjected to extreme humidity, temperatures, and corrosive environments.

The pins, which are part of support structure, become prematurely corroded over time, which can compromise structural integrity.



Corroded support pins.

Solution

Product

The corroded parts were treated with **Chesterton 763 Rust Transformer**, a mild acid-based product that transforms rust into a stable and corrosion-inhibiting surface.

The treated parts were then coated with **Chesterton 752 Cold Galvanizing Compound**, which provides anodic protection in atmospheric or corrosive conditions.



Chesterton's 763 and 752 restore and protect metal parts.

Results

Savings

- With **763 Rust Transformer**, rust on the parts was electrochemically transformed into a protective layer that inhibits corrosion.
- The ultra-fine particles of the **752 Cold Galvanizing Compound** act as a sacrificial coating. The anodic zinc becomes oxidized instead of the base metal.
- Structural integrity was restored as a result of the **Chesterton 763** and **752** combined solution.



The pins were successfully restored and protected from further corrosion.