



VpCI® SOLUTIONS FOR LONG-TERM PRESERVATION, LAYUP, & MOTHBALLING

# CASE HISTORY

## HMS Lancaster Preservation



### DATE

August 2016

### CORTEC® REPRESENTATIVE

HITEK-nology Solutions Ltd.

### CUSTOMER

BAE

### LOCATION

Portsmouth Royal Dockyard, UK

### PRODUCTS

VpCI®-101 Emitters

VpCI®-105 Emitters

VpCI®-126 Bags

VpCI®-132 Foam

VpCI®-369

VpCI®-389D

VpCI®-415

VpCI® Super Penetrant

MilCorr® VpCI® Shrink Film

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### PROBLEM

HMS Lancaster was entering a layup period in Portsmouth prior to being shipped to Plymouth for refurbishment. The front part of the ship was to have dehumidified equipment (DHE) installed. BAE approached HITEK-nology Solutions Ltd (HSL) to provide a solution that would protect various equipment and electrical junction boxes on the outer deck, as well as a large number of internal rooms and equipment within those rooms, against corrosion.

### APPLICATION

The internal volumes of the rooms were protected using VpCI®-137 foam. Various pieces of equipment within the rooms were treated with VpCI®-369 aerosol for both protection and lubrication. In some instances parts were stiff or seized, and these were treated with VpCI® Super Penetrant.

Various external electric boxes were protected by placing VpCI®-101 and 105 Emitters inside. Several exposed electrical cable ends on the outer deck and in the inner rooms were protected using VpCI®-126 bags.

A number of pieces of outer-deck equipment were treated with VpCI®-132 foam and wrapped using MilCorr® VpCI® Shrink Film, which was then heat shrunk into place. VpCI® Super Penetrant was used to loosen some seized hinges on deck. The Caley Davits and RAS winch motors were treated with VpCI®-369. Finally, covered outer deck walkways were cleaned with VpCI®-415 and treated with VpCI®-389D, a water-based, temporary coating alternative to oil-based products.



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Environmentally Safe VpCI®/MCI® Technologies



## CONCLUSION

HSL was able to provide a practical, effective corrosion control layup system that would be relatively easy to remove when required. The VpCI® solution was able to revitalize frozen metal parts and was a simple way to protect intricate electrical systems from corrosion without requiring continuous monitoring.

