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HIGH PERFORMANCE VpCI® PACKAGING

CASE HISTORY

Five-Year Preservation of Landing Craft



LOCATION

Devonport Royal Dockyard, England

PRODUCTS

- VpCI®-101 Emitters
- VpCI®-105 Emitters
- VpCI®-137 Foam
- VpCI®-322
- VpCI®-415
- VpCI®-705
- M-529
- M-640 L
- CorShield® VpCI®-368
- CorShield® VpCI®-369
- MilCorr® VpCI® Shrink



PROBLEM

An LCVP MK5B required protection from corrosion for a period of up to five years of storage on land in an outdoor environment. Babcock asked HITEK-nology Solutions Ltd (HSL) for a solution that would protect the equipment from corrosion, while keeping all parts of the craft accessible for maintenance.

DATE

June 2017

CUSTOMER

Babcock International Group

APPLICATION

- The LCVP was prepared for preservation by washing it down with VpCI®-415.
- VpCI®-705 was added to the fuel, M-529 to the engine and gear-box oils, M-640 L to the coolant system, and VpCI®-322 to the hydraulic systems. The engines were then run up for approximately 20 minutes and removed for storage elsewhere.

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- VpCI®-101 and 105 emitters were placed into electric junction boxes.
- All exposed bare metal was treated with CorShield® VpCI®-368, and any exposed metal that also required lubrication (e.g., ramp rams) was treated with CorShield® VpCI®-369.
- The engine compartment, well space, wheel house, and deck area were protected by placing VpCI®-137 foam inside.
- The LCVP was then wrapped in MilCorr® VpCI® Shrink Film, which was heat shrunk into place. A MilCorr® zip door was then added so that access could be gained to all parts of the craft.

CONCLUSION

HSL provided an excellent long-term preservation solution that would protect the landing craft from corrosion while keeping all parts of the craft accessible. The preservation plan not only covered external surfaces, but also took into account the importance of protecting internal electrical, engine, and hydraulic systems.