



PROJECT PROFILE

Weight savings and fire safety justify use of PolySpec® decking for multi-year ship project



CUSTOMER

General Dynamics NASSCO

San Diego, California

PROJECT TEAM

General Contractor: PolySpec Construction Services, Inc. - Houston, Texas

Installer: Worldwide Flooring, Inc. - Houston, Texas

PROJECT OVERVIEW

The shipping industry is highly focused on maximizing both efficiency and capability. In order to achieve that, ships require that ultra lightweight materials be used to allow for increased load capabilities and improved operating speeds. Therefore, the evaluation of decking materials in ammunition and dry stores cargo holds of new T-AKE Navy ships was a lengthy process. The selection of PolySpec® 7K® and LITE® Latex was based on a calculation of efficiencies available through weight savings, a total of 50 tons per ship! In addition, these products meet stringent International Maritime Organization (IMO) fire safety standards.

This system was used on the first ship of a multi-ship contract by shipbuilder General Dynamics NASSCO. It was also used in reefer storage areas. PolySpec® LITE® Latex was also used as an underlayment in the living quarters. In some areas PolySpec® FLEX® IMO was used as a finish coating system.

KEY CONSIDERATIONS

Weight savings: The decking system was chosen due to the efficiencies created through weight savings. The resulting fuel savings is significant.

Fire safety: All underlayment and finished decking products must meet IMO fire safety standards for smoke and toxicity emissions and be self-extinguishing.

SYSTEM PRODUCTS

- **PolySpec® 7K®**
Deck Top Magnesite Insulation
- **PolySpec® LITE® Latex**
Light Weight Polymer Modified Underlayment
- **PolySpec® FLEX® IMO**
Flexible Chip Seamless Floor