


# High Heat Coatings for Ship Application

PROJECT IMAGE	OBJECTIVE
	<p>Evaluate heat resistance of currently used coatings within ship building. Recent inspections have found coatings in areas prone to high temperatures to have complete delamination. This project helps to provide guidance for different heat prone areas not only for coatings that can withstand varying heating levels but also provide adequate corrosion resistance. Testing will be performed in communication with NAVSEA on heat requirements to allow for optimizing best coating systems.</p> <p>TIP Items: 7.2.2.1.4, 7.2.2.6.3, 7.2.2.6.4, 7.3.2.6.3</p>
BENEFITS/ROI	PROJECT INFORMATION/FINANCIAL
<ul style="list-style-type: none"> <li>• Improve overall aesthetics of heat affected zones due to improved color and gloss retention</li> <li>• Provide list of coatings/ systems that could be used in heat prone zones that also provide corrosion resistance.</li> <li>• Reduce Recoating in areas affected by Heat.</li> </ul>	<p><b>Project Lead/Team Members:</b> Elzly Technology, HII-Newport News Shipbuilding, HII-Ingalls, NSWCCD</p> <p><u>Duration:</u> 12 Months</p> <p>Program Funds: \$200K            Cost Share: \$0            Public Sector: \$0</p>

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- This project will
  - Generate data to understand the relative performance of coatings commonly used in the Navy in high heat areas.
  - Develop a comprehensive list of available coating systems that resist varying temperature levels and provide corrosion resistance
    - Evaluate testing criteria in heat ranges from 200-600 degrees.
  - Provide test data and recommendations for shipyard and Navy consideration.