

# US COASTGUARD

The United States Coastguard (USCG) have more than 1500 boats and cutters stationed at 190 locations around the USA. The Coastguard contacted Enviropeel because they were anxious to solve ongoing corrosion problems with bolted fixings that were affecting many of their vessels.



The first applications were at the California USCG HQ on Alameda Island, using the Slugger 170 hand-held unit.



Despite constant maintenance, exposed nuts and bolts on USCG vessels were rusting very quickly and cutting tools were often required to remove or service affected equipment. As the problem was widespread, with cost and safety implications as well as those of aesthetics, the Coastguard wanted to see if Enviropeel offered them a practical solution.

Of equal interest to the Coastguard was the question of environmental impact. The fact that Enviropeel is re-useable and recyclable helped fuel their initial interest, but of equal concern was that any solution should have no adverse effects on the waters in which they sailed. Coastguard vessels sail in some of the world's most delicate environments, from the Arctic to the tropics and they had to be sure that Enviropeel met their tough criteria on releases to the environment. Following a successful technical review of these issues by USCG, an initial demonstration

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THERMOPLASTIC SYSTEMS

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Left: The USCGC Healey in Puget Sound.



was arranged at the USCG's Alameda HQ in California, using the Slugger 170 hand-held unit as the most cost-effective introduction to the function of the system. The trials also attracted the interest of NAVSEA, the new technology arm of the US Navy, as the Navy has many similar problems and is also looking for a way to protect its enormous fleet of mothballed vessels.

The first tests were to cap a series of bolt heads on various flanges to demonstrate the simplicity

*Top left: Tailor-made bolt caps from the Slugger 170.*

*Top right: The standard Enviropeel C12 unit is loaded aboard the Kukui in Hawaii. The unit weighs 220 kgs (484 lbs) and is equipped with a 10 metre (33 ft) application hose and spray gun.*

*Right: Rusting pipe clamps are sealed and protected using the spray gun on the main unit.*

*Bottom: The US Coast Guard Kukui.*







and effectiveness of using Enviropeel. These were so successful that a larger demonstration was arranged on the USCGC Healey in Puget Sound. As the Healey's mission would take it to arctic waters, a full-scale application on the USCGC Kukui in Hawaii was also arranged to assess the effectiveness of Enviropeel in the warmer waters of the Pacific.



*Above: Severe rust is visible on the crane and several motors. Complex assemblies like these motor units on the crane just need to be encapsulated to provide complete protection and prevent any further deterioration occurring.*

*Right: Much smaller assemblies can also be completely protected, sealing them from harm in Enviropeel.*



**The Solution.**

A wide range of equipment on various vessels has now been coated with Enviropeel. In every case, the basic problem has been the exposure of vulnerable steel bolts and components to a marine environment - in a situation where standard coating systems have failed. Enviropeel can be applied to all areas, even if corrosion already exists, where it completely prevents any further deterioration. Its use on US Coastguard vessels, or shipping of any kind provides an ideal solution. With active corrosion inhibitors and perfectly-fitting, water-proof second skin, Enviropeel is an ideal and cost-effective option for bolted and other vulnerable systems in severe marine conditions.

*Above: Rusty bolts like these are everywhere, but Enviropeel was specially developed to deal with this problem!*

*Bottom: Enormous bolts have exactly the same problem - the solution is coating with Enviropeel!*

