THE CHALLENGE: A nuclear submarine undergoes extensive inspection and overhaul during the period in port between deployments. During one such interval a nuclear submarine required underwater hull fairing prior to its next voyage. Several weeks of effort with competitive products had failed to produce the desired results and the departure date of the boat was rapidly approaching with the work still to be completed. Failure to accomplish the work would either delay departure or even demand an unscheduled dry-docking.

THE SOLUTION: Navy personnel called the TFT office in Houston, Texas who recommended using BIO-DUR 561 for the work. Material was flown out that day by express airfreight, a process made simple by the “Non Hazmat” classification of BIO-DUR 561.

BIO-DUR 561 is the original Kevlar® reinforced underwater applicable epoxy coating formulated by TFT. It finds wide usage in the Marine and Offshore industry where it is valuable as an anticorrosion coating applied to immersed structures such as drilling rigs, shore facilities and pipelines which cannot be readily dried out for coating with more conventional materials.

Several variants of the BIO-DUR 561 formula have been made with changes in viscosity and cure rate to provide materials tailored for specific applications. BIO-DUR 561 itself is also available in a “Nuclear” version approved by EPRI as an underwater applicable coating suitable for Service Level 1 applications within the primary containment of nuclear plant.

RESULT: Navy divers completed their underwater work before 10:00 PM the very next day allowing ample time for curing before the boat left on an extended deployment the following week.

Reports to TFT indicated that the work went very smoothly and totally successfully.

(Similar Case Histories: 005, 022, 025, 047)

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