

**Customer** Ship Repair Yard, North West  
**Sector** Marine  
**Date** December 2011  
**Ref no.** 20022

## APPLICATION EXAMPLE

# Repairs to bow thruster

## Situation

On dry docking this offshore supply vessel was inspected and found to have severe cavitation and corrosion on the bow thrusters wear rings and welds. This high erosion area is an integral part of the ships steering particularly when docking.

## Implication

If left untreated the corrosion would get worse leading to the need to replace the liner at considerable expense and extra time in dry dock, and the worst case scenario is leak to the hull.

## Solution

The complete circumference was blasted to SA2.5 with a 75 micron profile as a minimum to establish the extent of the corrosion. Upon inspection the Ships Manager approved the use of Resimac ceramic repair paste to fill the deep areas back to the original spec, and for a ceramic repair fluid to be applied to protect the repaired areas.

## Facts

Mark Specialist Applications was considered as the "only option" on this occasion due to the limited time available before taking on water. Temperature controlled environments were erected, heaters installed and works completed with 12 hours with a further 16 hours for post curing before immersion.

