

# Broken Cast Aluminum Motor Cover Repair

ID: 9023

Industry: *Marine*  
Application: *ENC-Engines and Casings*  
Substrate: *Aluminum*  
Products: *Belzona 7311*

Customer Location: *Seattle Washington*  
Application Date: *March 2023*

## Problem

*Part of the cast aluminum motor cover was broken off. Welding, replacement and cold bonding were the options.*



Broken Piece



Applying 7311 to Cover



Applying 7311 to Broken Piece



Completed Application

## Application Situation

Using Belzona 7311 provided the customer with an alternative to welding. The amount of testing data gave the assurance to the customer that the product was the ideal solution for bonding.

## Application Method

Mating surfaces were roughened and de-greased. 7311 was brushed into the substrate using a stiff bristled acid brush. Material was built up then broken piece was set in place and clamped during the curing process.

## Belzona Facts

Welding cast aluminum requires expertise and can weaken the surrounding area. There was a long lead time for a replacement cover which was not acceptable to the customer. Belzona 7311 was selected for its optimal adhesion properties.

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ISO 9001:2015  
FS 695214  
ISO 14001:2015  
EMS 695213

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