

# RUDDER REPAIR ON THE AIRCRAFT CARRIER «ADMIRAL GORSHKOV»

ID: 5155

Industry: Marine  
Application: SOS-Ships and Offshore Structures

Customer Location: Shipyard, Severodvinsk, Russia  
Application Date: November 2007

Substrate: Steel  
Products: \* Belzona 1111 (Super Metal) ,  
\* Belzona 1321 (Ceramic S-Metal) ,

## Problem

Due to corrosion wear of the rudder seat project 11430, performance and efficiency have considerably decreased



## Photograph Descriptions

- \* Injecting Belzona 1321 to bond the steel surface of the rudder ,
- \* Sealing openings with Belzona 1111 ,
- \* Application of Belzona 1111 onto the rudder &ndash; cone shape rebuilding ,
- \* Repair completed ,

## Application Situation

Rudder

## Application Method

Repair was carried out according to Belzona Know-How System Leaflet SOS-3 that was approved by Russian Maritime Registry of Shipping

## Belzona Facts

The customer was skeptical at first about using polymer materials. Due to proven experiences in carrying out such repairs and independent tests on physical and mechanical properties of Belzona materials done by state enterprises, the customer agreed to the repair. A significant amount of time was saved in comparison to traditional repairs. Moreover, the only alternative repair method, which would be to replace the rudder completely, would result in substantial costs.

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

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

Belzona products are  
manufactured under an ISO  
9000 Registered Quality  
Management System.

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