

# Belzona Elastomers Rebuild Flange Gasket on a Cruise Ship

ID: 7778

**Industry:** Marine  
**Application:** GSS-Gaskets, Seals and Shims  
**Substrate:** Steel  
**Products:** \* Belzona 2121 (D & A Hi-Coat Elastomer) ,  
\* Belzona 2911 (Elastomer QD Conditioner) ,  
\* Belzona 9411 (Release Agent) ,

**Customer Location:** Portland, OR (United States)  
**Application Date:** May 2018

## Problem

Flowing seawater had degraded the original gaskets on several flanges of this 963 foot cruise ship. Further damage was caused by the removal of adjacent valves for service.



## Photograph Descriptions

- \* Damaged gasket on flange. ,
- \* Surface prepared and ready for Belzona Elastomer rebuild. ,
- \* Former applied, Belzona 2121 curing. ,
- \* Former removed to reveal rebuilt gasket. ,

## Application Situation

Cruise ship flange gasket rebuilding.

## Application Method

Application was completed with a modified version of Belzona System Leaflet GSS-1 for creating gaskets. Damaged gasket material was removed. Steel substrate was cleaned and abraded with a grinder and MBX Bristle Blaster. The surface of the flange was then treated with a thin coat of Belzona 2911. Once the conditioner cured the flange face gasket was built up with Belzona 2121. A custom former or Blank that had been coated with a release agent was then lightly bolted onto the flange face to reform the gasket. Once Belzona 2121 had cured the former was removed to reveal the new gasket. Any excess material was then cut away with a razor blade.

## Belzona Facts

This cruise ship was in dry dock for a very limited time to complete a major rehab and needed to be back in the water in a matter of

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ISO 9001:2015  
FS 695214  
ISO 14001:2015  
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days. Belzona provided a custom fit and the job was completed within a few hours keeping the schedule intact and avoiding major penalties.

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