Know-How*in Action*

Vol.XXXIII No.121

BELZONA ELASTOMERS REBUILD FLANGE GASKET ON A CRUISE SHIP

CUSTOMER
Portland, OR (United States)

APPLICATION DATE
May 2018

APPLICATION SITUATION
Cruise ship flange gasket rebuilding.

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.

PRODUCTS
Belzona 2121 (D & A Hi-Coat Elastomer)
Belzona 2911 (Elastomer QD Conditioner)
Belzona 9411 (Release Agent)

SUBSTRATE
Steel

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 days. Belzona provided a custom fit and the job was completed within a few hours keeping the schedule intact and avoiding major penalties.

PICTURES
1. Damaged gasket on flange.
2. Surface prepared and ready for Belzona Elastomer rebuild.
3. Former applied, Belzona 2121 curing.
4. Former removed to reveal rebuilt gasket.

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