



## All the Materials Needed for Off-shore Emergency Repairs in the Marine Industry

There is often limited access to certain resources while off-shore, Belzona has developed a customized Marine Emergency Repair Kit for unexpected problems. The kit contains all of the necessary items needed for temporary and permanent repair of equipment such as:

- PIPES
- HEAT EXCHANGERS
- HYDRAULIC RAMS
- CASINGS & IMPELLERS
- SHAFTS AND KEYWAYS
- BEARINGS AND BUSH HOUSINGS
- STRIPPED THREADS
- TANKS
- STEEL PLATING

The kit features three multipurpose products for emergency repairs.

### Belzona Marine Metal

This two-component repair and rebuilding material is based on a ceramic steel reinforced polymer system. It will bond to almost any surface and will not corrode (being extremely resistant to a wide range of chemicals).

### Belzona<sup>®</sup> 1221 (Super E-Metal)

Belzona<sup>®</sup> 1221 is a breakthrough polymer-based compound providing a superior alternative to conventional rapid repair systems. It combines rapid hardening, outstanding performance, strong adhesion, superior heat and moisture resistance and no objectionable odors.

### Belzona<sup>®</sup> 1291

Supplied in a convenient stick form, this material, when used with the Belzona Tourniquet, instantly seals live leaks.



CRACKED CASING



REPAIRED CASING



LEAKING PIPE



REPAIRED PIPE



DISTORTED HEAT EXCHANGER FLANGE



REPAIRED HEAT EXCHANGER FLANGE

## The Unconventional Alternative.

**Belzona Polymeric Ltd.** Harrogate, HG1 4AY, England  
 Fax: +44 (0) 1423 505967 • Tel: +44 (0) 1423 567641  
 E-mail: Com@Belzona.co.uk

**Belzona Inc.** Miami, Florida 33172, USA  
 Fax: (305) 599-1140 • Tel: (305) 594-4994  
 E-mail: Belzona@Belzona.com





## Marine Emergency Repair Kit Contents

Belzona® Marine Metal	(3 X 1 kg.)
Belzona® 1221 (Super E-Metal)	(6 X 125 g.)
Belzona® 1291	(2 X 110 g.)
Belzona® 9111 (Cleaner/Degreaser)	(1 X 0.5 liter)
Belzona® 9411 (Release Agent)	(1 X 100 g.)
Belzona® 9341 (Reinforcement Tape)	(1 X 4 m.)

Belzona® Tourniquet  
 25 disposable working surfaces  
 2 spatulas  
 4 applicators  
 Impermeable vinyl gloves  
 Material Safety Data Sheets  
 Instruction leaflet



BELZONA MARINE EMERGENCY REPAIR KIT

## Simplicity in Use

- No special tools or skills required. Easy application by spatula or applicator.
- Simple and tolerant 1:1 mixing ratio; mix just the right amount for the job.
- Rapid curing and extended working life materials suitable for use in all climates and application situations.

## Safety in Use

- No shrinkage, expansion or distortion during cure. No stress or strain on repaired components.
- Belzona® 1221 is suitable for contact with potable water.

## Versatility in Application

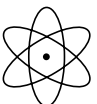
- Excellent electrical insulation characteristics prevents bimetallic corrosion caused by dissimilar metals.
- Apply thin or thick sections in one operation. Will not slump at up to 1" (25 mm) sections. Stays where it is applied even on overhead surfaces.
- Bonds tenaciously to almost any surface including steel, aluminum, copper, brass, stainless steel, fiberglass laminate, concrete, unglazed ceramics and glass.
- Moldable to precise contours.
- Machinable with conventional tipped tools.

## Permanency in Service

- High mechanical strength and adhesion.
- Outstanding resistance to a broad range of chemicals.
- Corrosion resistant.



BS EN ISO 9002 - 1994  
 Certificate No. Q/09335



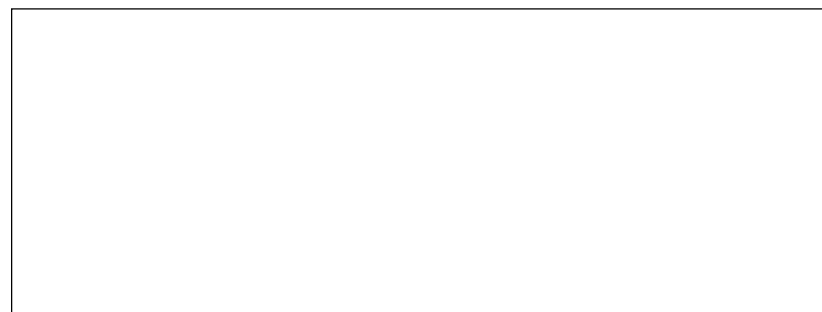
Nuclear Industry DBA  
 Approval in accordance  
 with ASTM D 3911



Certified to  
 ANSI/NSF Standard 61



Certificate No: 95-HU9719-X



Copyright© 1998 by Belzona International Ltd. All rights reserved. No part of this work may be reproduced or used in any form or by any means - graphic, electronic or mechanical including photocopying, recording, taping, or information storage and retrieval systems - without written permission of Belzona International, Ltd.

Belzona® is a registered trademark.

Printed from Belzona Electronic Library