



S U P E R M E T A L

## The Multi-Purpose, Machinable Belzona System for Repairing and Rebuilding

Belzona® 1111 (Super Metal) is a two-component repair and rebuilding material based on a ceramic steel reinforced polymer system. It has been acclaimed for many years as providing quality solutions to a wide range of general engineering needs. Applications for Belzona® 1111 (Super Metal) include the repair and reclamation of:

- oversized bearing/bush housings
- fractured and holed castings
- distorted flange faces
- leaking tanks
- scored hydraulic rams
- sloppy keyways
- scored machine beds
- fractured pipes
- undersized/scored shafts
- stripped threads

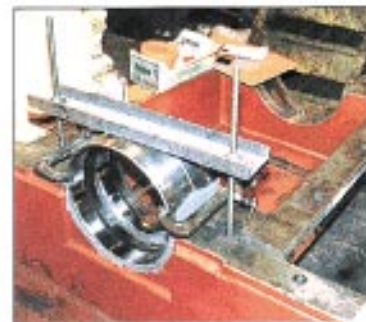
Belzona® 1111 (Super Metal) requires no special tools or skills to apply. It will bond to almost any surface, and can be machined using conventional tools. Belzona® 1111 (Super Metal) will not corrode, and is extremely resistant to a wide range of chemicals.

Belzona® 1111 (Super Metal) will allow you to:

- Simplify routine maintenance
- Reduce the need for spare parts
- Slash "down time"
- Keep production moving



REBUILD WORN SHAFTS



RESEAT LOOSE BEARINGS



REFORM DAMAGED SHAFTS



BOND SLEEVES



REPAIR CRACKED CASINGS



REPAIR CORRODED PIPES

## The Unconventional Alternative.

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

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

[www.belzona.com](http://www.belzona.com)





BELZONA® 1000 SERIES METALLIC POLYMERS

## Simplicity in Use

- No special tools or skills required. Easy application by spatula, specially designed applicator (included) or injection pistol.
- Simple and tolerant mixing ratio; mix just the right amount for the job.



## Safety in Use

- Cold temperature cure ensures no fire risk.
- No shrinkage, expansion or distortion during cure; and no stress or strain on repaired components.
- Excellent electrical insulation characteristics enables use with complete safety on dissimilar metals where bi-metallic corrosion is a problem.

## Versatility in Application

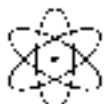
- Apply thin or thick sections in one operation. Will not slump at up to 1" (25 mm) sections. Stays where it is applied even on overhead surfaces.
- Bonds tenaciously to almost any surface including steel, aluminum, copper, brass, stainless steel, fiberglass laminate, concrete, unglazed ceramics and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

## Permanency in Service

- High mechanical strength.
- Exceptional heat resistance.
- Outstanding resistance to a broad range of chemicals including inorganic acids, alkalis, hydrocarbons, mineral oils, oxidizing agents, vegetables and fats, alcohols, aqueous solutions and emulsions.
- Does not corrode.



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



Nuclear Industry DBA  
Approval in accordance  
with ASTM D 3911



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.

Publication No. F1111 (0202)