



# BELZONA® 1321

C E R A M I C S - M E T A L

## For Protection of Metal Surfaces Subject to Erosion-Corrosion

Corrosion occurs when metal surfaces react with oxygen in the presence of water to form protective oxide films. These protective films are then removed by physical erosion such as the abrasive action of turbulent fluids.

This cycle of corrosion and erosion continually repeats itself, giving rise to the phenomenon of erosion-corrosion, which can be accelerated by:

- Impingement
- Entrainment
- Cavitation
- Bi-metallic corrosion

Erosion-corrosion produces rapid eating away of metal surfaces causing deterioration in performance/efficiency of machinery and equipment.

Based on corrosion resistant ceramic steel particles held in a chemically reacting liquid polymer, Belzona® 1321 provides outstanding protection for metal surfaces subjected to erosion-corrosion. It has received worldwide acceptance by such bodies as:

- Det Norske Veritas
- Bureau Veritas
- British Coal
- American Bureau of Shipping
- York International
- Italian Register of Shipping
- UK Water Research Council
- Conoco
- Chevron
- Imperial Tobacco



CENTRIFUGAL PUMPS



VALVES



VACUUM PUMPS



PROCESS TANKS



GAS SCRUBBERS



HEAT EXCHANGERS

## 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





BELZONA® 1000 SERIES METALLIC POLYMERS

### Simplicity in Use

- No special tools or skills required. Easy application by brush, specially designed applicator (included) or injection pistol.
- Available in two separate colors for easy identification when applying the two coat system.



### 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.
- Solvent free. No fire or inhalation hazards when used in confined spaces.

### Versatility in Application

- Bonds tenaciously to almost any surface including steel, aluminum, copper, brass, stainless steel, and glass reinforced plastics.
- Machinable with polycrystalline diamond tipped tools.
- UK WFBS listed as suitable for contact with potable water.

### Permanency in Service

- Does not corrode.
- Superb resistance to abrasion and erosion.
- 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.



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