



# BELZONA<sup>®</sup> 1391

## A Revolution in High Temperature Coating Technology

Erosion-corrosion damage to equipment operating in contact with water and other aqueous solutions at high temperatures is a major problem faced by design and maintenance engineers.

While protective coatings can be successfully used at moderate temperatures, migration through the coating readily occurs at temperatures above 90°C (194°F). This gives rise to blistering and premature breakdown.

Conversely, barrier coatings such as glass flake systems offer improved migration properties but are limited by poor cavitation and abrasion resistance, susceptibility to impact damage, and difficulties in application.

By combining a unique blend of inorganic erosion-corrosion resistant reinforcing agents with a radically new, densely crosslinked heat resistant polymer, a revolution in high temperature coating technology has been created. Belzona<sup>®</sup> 1391 makes protection against erosion-corrosion in high temperature environments a reality.



OIL PRODUCTION SEPARATORS



CONDENSATE EXTRACTION PUMPS



CALORIFIERS



EVAPORATORS



AUTOCLAVES



SCRUBBER UNITS

## 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

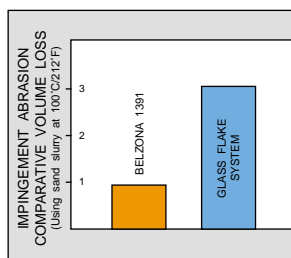
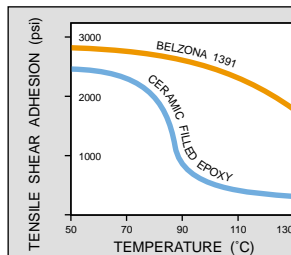
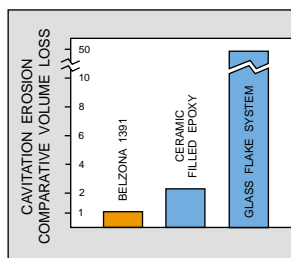
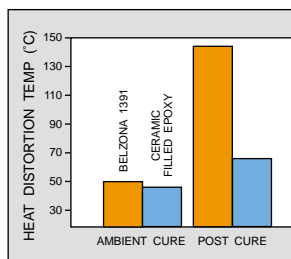
**Belzona Inc.** Miami, Florida 33172, USA  
Fax: (305) 599-1140 • Tel: (305) 594-4994  
E-mail: Belzona@Belzona.com



# BELZONA® 1391



BELZONA® 1000 SERIES METALLIC POLYMERS



## Exceptional Heat Resistance

- Once cured at ambient temperature, the system's unique post curing mechanism is activated by elevated temperature service conditions.
- Suitable for use in pressurized water systems at temperatures up to 130°C (265°F).

## Outstanding Cavitation Resistance

Easily outperforms conventional ceramic filled epoxies and glass flake systems, particularly at elevated temperatures.

## Excellent Adhesive Strength

- Bonds well to a wide range of substrates including steel, copper, aluminum, brass, stainless steel and concrete.
- High adhesion maintained over the full service temperature range.

## Superb Abrasion Resistance

Volume loss under high temperature impingement abrasion conditions is extremely low.

## Convenience of Use

- Can be applied as a single coat system.
- Color differentiation between layers when applying a two coat system so as to avoid holidays and pinholes.
- Easy application by brush or with specially designed applicator supplied.

## Safety in Use

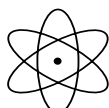
VOC free formulation protects the environment, eliminates fire risk and reduces inhalation hazards.

## High Corrosion Protection

The totally non-corrodable formulation has extremely low water permeability which, along with its excellent electrical insulation characteristics, prevents bi-metallic corrosion of the underlying substrate.



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



Nuclear Industry DBA  
Approval in accordance  
with ASTM D 3911