

# Product Data

## Abrasion & Cavitation Resistant Elastomer

Belzona® 2141 (ACR-Fluid Elastomer System) is an elastomeric system designed for coating applications subject to the extremely high localized pressures created by cavitation and erosion.

This versatile liquid applied material retains adhesion under long term immersion and dissipates energy created under medium to high intensity cavitation conditions.

### Belzona® 2141 (ACR-Fluid Elastomer System) will:

- Simplify maintenance procedures
- Extend equipment life
- Protect against cavitation and erosion-corrosion

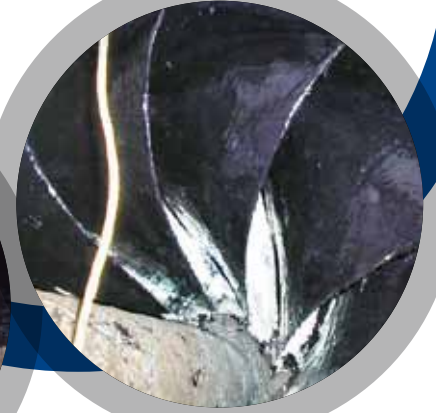
Belzona® 2141 (ACR-Fluid Elastomer System) can be injected/formed or applied as either a one or two-coat system by brush or applicator to most common surfaces such as metals, alloys, natural rubbers, synthetic rubbers, fiberglass, or composites.

## Belzona® 2141

ACR-Fluid Elastomer System



Rudders



Hydroelectric Turbines



Kort Nozzles



Bow Thrusters

### Applications for Belzona® 2141 (ACR-Fluid Elastomer System) include:

- Propeller shaft brackets
- Propeller bolt fairings
- Kort nozzles
- Bow thrusters
- Kaplan and Francis turbines
- Wicket gates and stay vanes
- Cooling water pump impellers
- Valves
- Shafts
- Filters
- Riser seals

# Belzona® 2141 (ACR-Fluid Elastomer System) is:

## Simple

- Easily mixed and applied
- Color differentiated formulations allow two coats to be applied at the correct thickness
- Wide overcoating window

## Safe

- Cold temperature cure ensures no fire risk

## Versatile

- Can be used in conjunction with different Belzona Erosion-Corrosion coatings to allow localized protection where required
- Can be injected/formed in-situ onto pre-conditioned metal and composites suitable for overcoating with anti foulings for marine use
- Resists cavitation at ultra-high velocities up to 115 Knots with no damage (PennState Tunnel Test)

## Effective

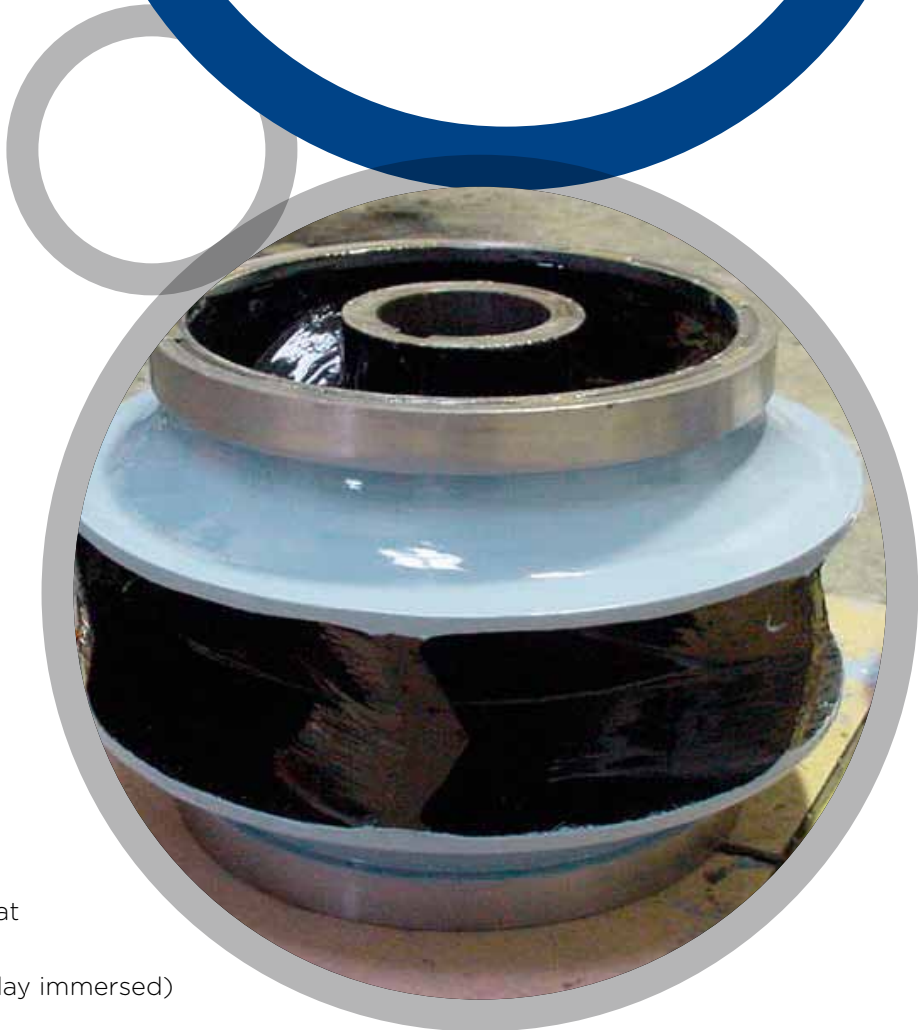
- Long term adhesion retention on immersion
- High resilience, high tear strength: elongation at break (ASTM D412) typically 530%
- Meets requirements of the ASTM D3623 (90-day immersed) cathodic disbondment test
- Independent tests show performance almost 3 times better than stainless steel and almost 14 times better than E-grade steel in the ASTM G32 cavitation erosion ultra-sonic vibration test method

For more information, please contact your local Belzona representative.



# Belzona® 2141

ACR-Fluid Elastomer System



Pumps

## QUALITY PRODUCTS - TECHNICAL SUPPORT

The Belzona product range is manufactured through stringent quality and environmental control guidelines complying with the internationally recognized requirements of **ISO 9001:2008** and **ISO 14001:2004**. Belzona has a global distribution network of over 140 Distributors operating in 120 countries. Local support is provided by trained Technical Consultants who will diagnose the problem, recommend the solution, and provide 24-hour on-site application supervision.

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



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ISO 14001:2004  
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**BELZONA®**  
Repair • Protect • Improve