

# Erosion & Cavitation Resistant Elastomer



**BELZONA**  
2141



Belzona 2141 (ACR-Fluid Elastomer) is an elastomeric system designed for coating applications subject to the extremely high localised 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) can be injected/formed or applied as either a one or two coat system by brush or applicator.



TECHNICAL DATA	Working Life	13 minutes at 25°C (77°F)	
	Shelf Life	3 years	
	Coverage Rate	1 coat: 0.68 m <sup>2</sup> (7.3 ft <sup>2</sup> ) / 750 g	2 coats: 1.36 m <sup>2</sup> (14.6 ft <sup>2</sup> ) / 750 g
	Adhesion (90° Peel)	Mild steel: 3,214 kg/m (180 pli)	
	Elongation	530% after 24 hour cure at 20°C (68°F)	
	Heat Resistance	Anti-cavitation applications up to 40°C (104°F)	Other dry applications up to 100°C (212°F)
	Shore A Hardness	87	
	Abrasion Resistance - loss per 1000 cycles	H18 - 50 mm <sup>3</sup> dry	H18 - 39 mm <sup>3</sup> wet

CURE TIMES	Temperature	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
	Movement or Use Involving No Loading or Immersion	12 hours	8 hours	4 hours	2 hours
	Full Mechanical or Thermal Loading	5 days	4 days	2 days	2 days
	Immersion	10 days	7 days	5 days	3 days

\*Please consult the Product Specification Sheet (PSS) and Instructions for Use (IFU) for the latest technical data.



EASY TO APPLY



EROSION  
RESISTANT



OUTSTANDING  
CAVITATION  
PROTECTION



HIGH ELONGATION



EXCELLENT  
ADHESION

## Key Benefits:

- **Outstanding cavitation protection**  
This flexible rubber material is appropriate for coating extremely high localised pressure areas, offering outstanding protection against cavitation at ultra-high velocities.
- **Excellent adhesion in immersion**  
This material provides excellent adhesion in long-term immersion and it meets the requirements for ASTM D3623 (90 day immersed cathodic disbondment test).
- **Easy to apply**  
This fluid material is easy to mix and apply without the need for specialist tools and cures at room temperature eliminating the need for hot work

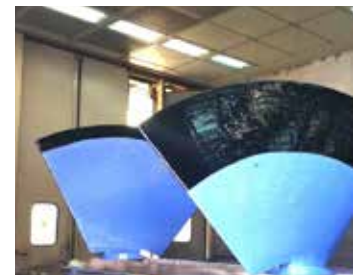


Splash zone clamps coated

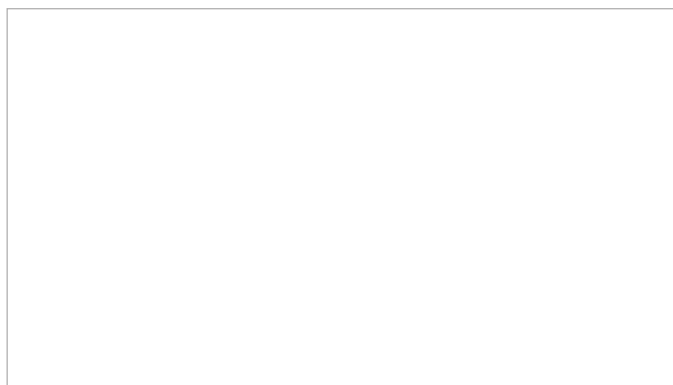
## Application Areas:

- Bow thrusters
- Filters
- Kaplan and Francis turbines
- Kort nozzles
- Propeller bolt fairings
- Propeller shaft brackets
- Pumps
- Riser seals
- Rudders
- Shafts
- Wicket gates and stay vanes valves

## Before & After:



For more information, please contact your local Belzona representative:



### QUALITY PRODUCTS - TECHNICAL SUPPORT

Belzona products are manufactured under an ISO 9001 Registered Quality Management System.

Belzona has a global distribution network of over 140 Distributors operating in 120 countries. Local support is provided by a trained Technical Consultant who will diagnose the problem, recommend the solution and provide 24-hour, on-site application supervision and advice.