

Protective Coating for Equipment Operating in Immersed Erosive Conditions


BELZONA®
5821



Belzona 5821 is a multi-purpose brush or spray applied coating that provides outstanding protection from the effects of salt, water, acids, alkalis, alcohols and hydrocarbons.

This material can be applied to virtually any rigid surface including cast iron, stainless steel, brass, copper, concrete, wood, fiberglass and aluminium.

Belzona 5821 provides protection against erosion by binding engineered and tightly packed ceramic particles to its epoxy-based resin system, creating a seamless encapsulating coating.

TECHNICAL DATA	Mixing ratio (Base:Solidifier)	3:1 by volume	5:1 by weight
	Working life	105 minutes at 20°C (68°F)	
	Shelf life	5 years	
	Heat resistance	160°C (320°F) dry	50°C (122°F) wet
	Adhesion (tensile shear)	Mild steel: 20.8 MPa (3,020 psi) after 7 days cure at 22°C (72°F)	Aluminum: 19.1 MPa (2,770 psi) after 7 days cure at 22°C (72°F)
	Shore D hardness	81	
	Compressive strength	39.9 MPa (5,780 psi) after 7 days at 22°C (72°F)	
	Coverage rate	2.5 m ² (27 ft ²) / litre at 400 microns (16 mils)	
	Abrasion resistance	H10 - 402 mm ³ wet	CS17 - 86 mm ³ dry

CURE TIMES	Temperature	10°C (50°F)	20°C (68°F)	30°C (86°F)
	Light loading	36 hours	18 hours	9 hours
	Full mechanical/thermal loading or water immersion	8 days	5 days	2 days
	Chemical contact	12 days	7 days	5 days

*Please visit the [product page](#) and consult the Product Specification Sheet (PSS) and Instructions for Use (IFU) for the latest technical data.



**CHEMICAL
RESISTANT**



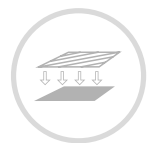
**COST
EFFECTIVE**



**EROSION
RESISTANT**



**CORROSION
RESISTANT**



**BONDS TO MANY
SUBSTRATES**

5000 Series BELZONA 5821

Key Benefits:

- **Versatile application**

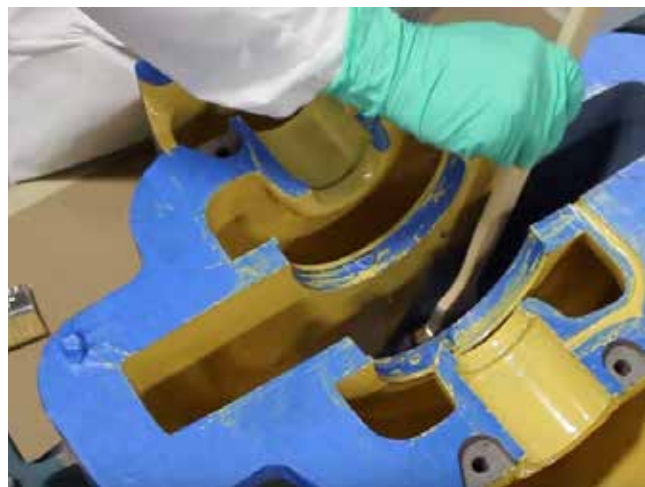
Spray- or brush-applied onto metallic surfaces, concrete, brick and others. Cures in low-temperature and damp conditions.

- **Excellent chemical resistance**

Resists various aqueous solutions, acids, alkalis, alcohols and hydrocarbons.

- **Outstanding erosion resistance**

This cost-effective coating performs well in erosive environments, such as water treatment plants.



Application Areas:

- Bunds
- Chemical containment areas
- Chemical storage areas
- Clarifiers
- Concrete sumps
- Cooling tower basins
- Machinery and production areas
- Manholes
- Pumps
- Steel and concrete pilings
- Tanks
- Tube sheets
- Water boxes



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.