

Protective Coating for Surfaces Operating Under Immersion



Belzona 5811 (Immersion Grade) is a solvent-free system for the protection of metallic and non-metallic surfaces operating under immersion conditions in contact with aqueous solutions.

This coating can be both brush and spray applied, aiding rapid applications over large areas. It provides outstanding protection from the effects of salt water, acid, alkalis, alcohol, hydrocarbon and the environment.

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

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	
	Immersion resistance	50°C (122°F)	
	Adhesion (tensile shear) mild steel	Mild steel - 7 days cure at 20°C (68°F): 21.5 MPa (3,115 psi)	Mild steel - 28 days cure at 20°C (68°F): 22.5 MPa (3,260 psi)
		Aluminum - 7 days cure at 20°C (68°F): 14.2 MPa (2,055 psi)	Aluminum - 28 days cure at 20°C (68°F): 15.5 MPa (2,250 psi)
	Compressive strength	64.2 MPa (9,310 psi) after 7 days cure at 20°C (68°F)	
	Coverage rate	2.5 m ² (27ft ²) / litre at 400 microns (16 mils)	

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



**CHEMICAL
RESISTANT**



**BRUSH OR
SPRAY APPLIED**



**COLD AND
DAMP CURE**



**CORROSION
RESISTANT**



**BONDS TO MANY
SUBSTRATES**

5000 Series BELZONA 5811

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 ethanol, sulphuric acid, hydrochloric acid, hydrobromic acid, potassium hydroxide, ethyl acetate, methyl acetate, ethylene glycol, ammonia solution, diethanolamine, hydrocarbons, sea water and crude oil.

- **DW version for potable water contact**

Belzona 5811DW2 is WRAS approved for potable water contact.



Belzona 5811 used for buried pipe protection

Application Areas:

- Bunds
- Clarifiers
- Concrete sumps
- Cooling tower basins
- Manholes
- Marine buoys
- Pipes
- Pumps
- Steel and concrete piling
- Tanks
- Tube sheets
- Water boxes



Injection bonding



Protecting repairs



Protecting bunds



Lining tanks

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.