

# Moisture-Tolerant Protective Coating for Low Temperature Application

  
**BELZONA®**

## 5831LT



Belzona 5831LT is an environmental moisture-tolerant barrier coating, specially formulated for the protection of metallic and non-metallic surfaces at lower temperatures.

Similar to Belzona 5831 (ST Barrier), this coating uses moisture-tolerant technology. The product displaces surface contaminants, ensuring maximum adhesion to damp, wet or oily surfaces and underwater.

This solvent-free material can be applied on to virtually any surface and is easy to apply at low ambient temperatures and on cold substrates. Belzona 5831LT will provide long-term protection against corrosion, erosion and environmental attack.

TECHNICAL DATA	Mixing ratio (Base : Solidifier)	1:1 by volume	1.75:1 by weight	
	Working life	45 minutes at 20°C (68°F)		
	Shelf life	5 years		
	Adhesion (dolly pull-off)	Mild steel (clean and dry) - ground: 14.1 MPa (2,050 psi)	Mild steel (clean and dry) - grit blasted: 15.7 MPa (2,280 psi)	
		Mild steel (underwater) - ground: 8.1 MPa (1,170 psi)	Mild steel (underwater) - grit blasted: 12.3 MPa (1,780 psi)	
		Mild steel (oil contaminated) - ground: 9.9 MPa (1,440 psi)	Mild steel (oil contaminated) - grit blasted: 10.9 MPa (1,580 psi)	
	Coverage rate	3.3 m <sup>2</sup> (35.5 ft <sup>2</sup> ) / litre at 300 microns (12 mils)		
Shore D hardness	66 at 20°C (68°F)			
Salt spray resistance	The coating shows no blistering or corrosion after >2000 hours exposure (ASTM B117)			

CURE TIMES	Temperature	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
	Light pedestrian traffic	60 hours	40 hours	20 hours	8 hours
	Full mechanical cure	20 days	13 days	5 days	2 days

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



**MOISTURE  
TOLERANT**



**EASY TO APPLY AT  
LOW TEMPERATURES**



**COLD AND  
DAMP CURE**



**CORROSION  
RESISTANT**



**BONDS TO MANY  
SUBSTRATES**

## Key Benefits:

- **Moisture tolerant**

It demonstrates excellent adhesion onto wet, damp and oil-contaminated surfaces, as well as underwater.

- **Simple application**

With a simple 1:1 volume mix ratio, Belzona 5831LT can be easily brush applied to the correct thickness at lower temperatures.

- **Repair and protect system**

It can be used as a complete repair solution in combination with Belzona 1161, a surface-tolerant, paste-grade repair composite.



Belzona 5831LT is moisture tolerant and ideal for use offshore

## Substrate Temperature:

### BELZONA 5831LT

### BELZONA 5831

5°C  
(41°F)

40°C  
(104°F)

- **Lower temperatures**

Belzona 5831LT is recommended for applications on to lower temperature substrates e.g. colder offshore waters



Provide long-term corrosion protection in the splash zone



- **Higher temperatures**

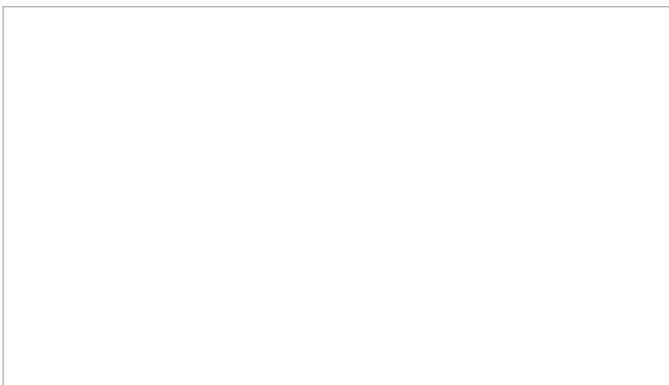
Belzona 5831 is recommended for applications on to higher temperature substrates e.g. tropical conditions



Extend the lifespan of assets versus environmental attack



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.