

High Temperature Immersion Coating for Erosion and Corrosion Protection


BELZONA®
1381



Belzona 1381 is a two-component coating designed to protect equipment from erosion and corrosion damage. Specifically, this system is suited to equipment operating under continuous immersion at temperatures up to 95°C (203°F).

This next-generation coating benefits from being spray-friendly. Combined with a 24-hour overcoat window, Belzona 1381 allows for large applications to be effectively and quickly completed, dramatically reducing downtime.

This solvent-free coating also offers outstanding chemical resistance and is available in light colours, aiding visibility during application and inspection in dark vessels.

TECHNICAL DATA	Mixing ratio (base:solidifier)	5 : 2 by volume	5 : 2 by weight
	Working life	40 minutes at 25°C (77°F)	
	Shelf life	3 years	
	Dry heat resistance	200°C (392°F)	
	Adhesion (tensile shear)	Mild steel: 22.8 MPa (3,300 psi)	
	Sag Resistance	>1250µm (>50 mils)	
	Coverage rate	2 m² (21.5 ft²) / litre at 500 microns (20 mils)	
	Heat distortion temperature	45°C (113°F) at 20°C (68°F) cure	122°C (252°F) at 100°C (212°F) cure
	Abrasion resistance	H10 - 46 mm³ wet	CS17 - 9 mm³ dry

CURE TIMES	Temperature	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
	Time until full service	96 hours	48 hours	20 hours	14 hours
	Dry post cure (if required)	32 hours	10 hours	8 hours	4 hours
	Wet post cure (if required)	60 hours	24 hours	14 hours	8 hours

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



**EROSION/CORROSION
RESISTANT**



**HIGH
TEMPERATURE
IMMERSION**



SOLVENT FREE



**CHEMICAL
RESISTANT**



SPRAYABLE

Key Benefits:

- **Erosion and corrosion resistance**

Belzona 1381 offers outstanding erosion and corrosion resistance for equipment operating under immersion.

- **Spray friendly**

Belzona 1381 has a spray-friendly composition which aids rapid application with negligible wear to spray equipment.

- **High chemical resistance**

This coating demonstrates outstanding resistance to a wide range of chemicals, providing long-term barrier protection.

- **High film build**

Belzona 1381 is capable of high-build spray application (> 1250 microns) in a single coat without sagging.



Belzona 1381 can be sprayed with negligible wear to the nozzle

Application Areas:

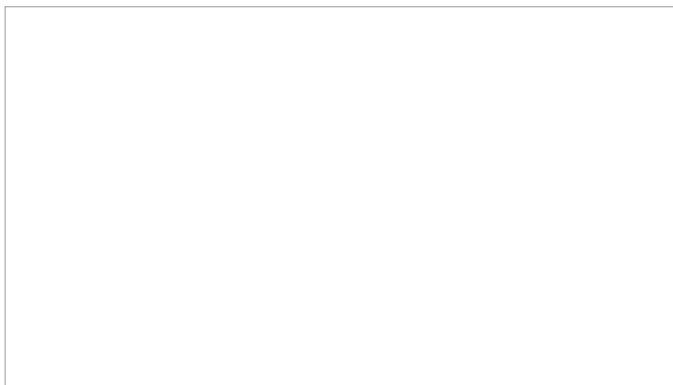
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|----------------------|----------------|-------------------|-------------------|
| • Chutes and hoppers | • Jet tubes | • Pipe linings | • Recycling drums |
| • Filters | • Kort nozzles | • Precipitators | • Scrubber units |
| • Girth welds | • Penstocks | • Process vessels | • Separators |

Application Example:



Before, during and after an application of Belzona 1381 being spin-sprayed on the internals of pipes

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.