

# Spray-Applied Protective Coating for Process Equipment Operating at Elevated Temperatures



Belzona 1523 provides long-term corrosion and chemical resistance to equipment operating in continuous immersion at temperatures up to 140°C (284°F). This spray-applied coating has a 24-hour overcoat window which allows large projects to be effectively and quickly completed, reducing downtime dramatically.

After ambient-temperature cure, its unique post-curing mechanism is activated at normal service temperatures, eliminating the need for separate post-curing processes and allowing a more rapid turnaround and return to service.

This solvent-free material is proven to outperform conventional Vinyl Ester Glass Flake (VEGF) coatings in terms of mechanical strength and adhesion whilst exhibiting reduced shrinkage and VOC emissions. This high-performance coating is also resistant to steam-out processes up to 210°C (410°F) and rapid depressurisation.

TECHNICAL DATA	Mixing ratio (base:solidifier)	8 : 1 by weight	4.5:1 by volume	
	Working life	45 minutes at 20°C (68°F)		
	Shelf life	3 years		
	Dry heat resistance	220°C (428°F)		
	Adhesion (tensile shear) mild steel	20.1 MPa (2,910 psi) at 20°C (68°F) cure	14.1 MPa (2,050 psi) at 100°C (212°F) cure	
	Compressive strength (yield)	46.9 MPa (6,800 psi) at 20°C (68°F) cure		
	Coverage rate	2 m <sup>2</sup> (21.5 ft <sup>2</sup> ) / litre at 500 microns (20 mills)		
	Heat distortion temperature	46°C (115°F) at 20°C (68°F) cure	155°C (311°F) at 100°C (212°F) cure	196°C (385°F) at 140°C (284°F) cure
	Abrasion resistance	H10 - 835 mm <sup>3</sup> wet	CS17 - 14.7 mm <sup>3</sup> dry	

CURE TIMES	Temperature	10°C (50°F)	20°C (68°F)	30°C (85°F)	40°C (105°F)
	Time until inspection	45 hours	11 hours	7 hours	4 hours
	Time until full service	7 days	25 hours	14 hours	9 hours
	Time until dry post cure (if required)	45 hours	11 hours	7 hours	4 hours
	Time until wet post cure (if required)	85 hours	18 hours	10 hours	6 hours

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



SPRAY APPLIED



VERY HIGH HEAT  
DISTORTION  
TEMPERATURE



EROSION-  
CORROSION  
RESISTANT



HIGH ADHESION



REDUCED  
DOWNTIME

## Key Benefits:

- **Spray application**

Belzona 1523 is easy to mix and apply using heated airless spray equipment, allowing large areas to be quickly and effectively protected.

- **Excellent resistance to corrosion and chemicals**

This coating provides long-term corrosion resistance even under immersed conditions at high temperature.

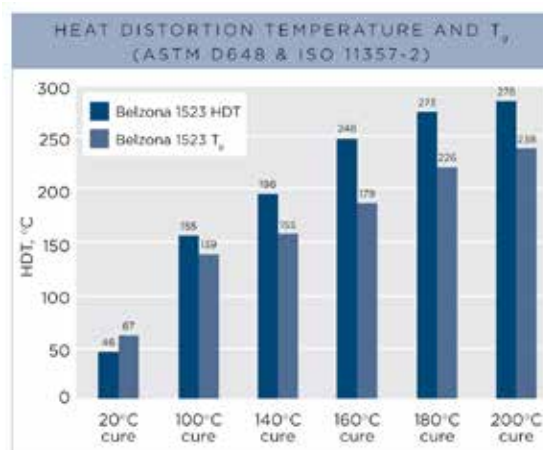
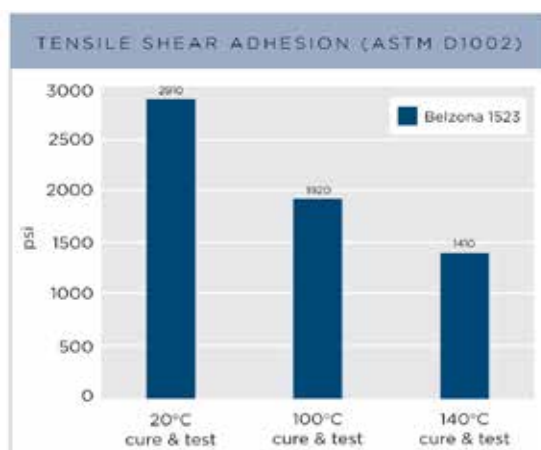
- **Very high Heat Distortion Temperature (HDT)**

Designed to operate under continuous immersion up to 140°C (284°F), Belzona 1523 provides long-term protection for high temperature equipment.

- **Minimised downtime**

Downtime is reduced due to Belzona 1523's post-cure mechanism activated at service temperatures.

## Test Data:



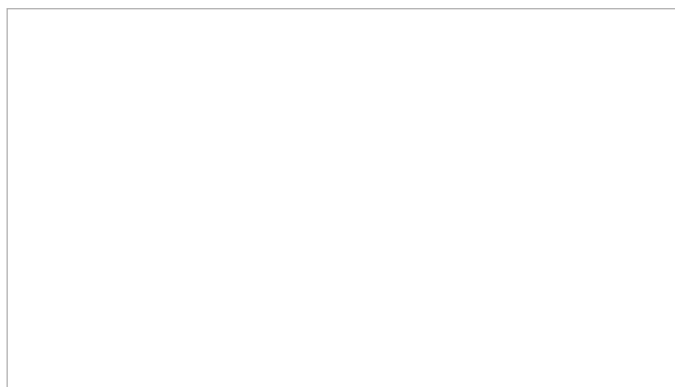
## Application Areas:

- Boiler vessels
- Condensers
- Heat exchangers
- Flare knock-out vessels and evaporators
- Separators



The light colours of Belzona 1523 allow easy visual inspection in vessels.

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.