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

BELZONA® 1523

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 m² (21.5 ft²) / litre at 500 microns (20 mils)		
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 mm³ wet	CS17 - 14.7 mm³ 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

1000 Series

BELZONA 1523

BELZONA®
Repair • Protect • Improve

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.

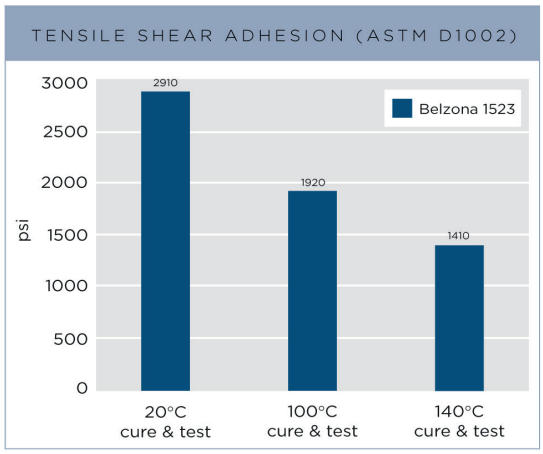
Very high Heat Distortion Temperature (HDT)

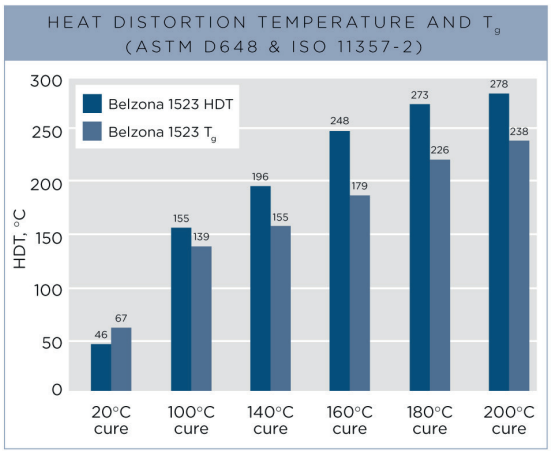
Designed to operate under continuous immersion up to 140°C (284°F), Belzona 1523 provides long-term protection for high temperature equipment.

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.