

Surface Tolerant Multipurpose Repair Material



1212



Belzona 1212 is a paste grade multipurpose, epoxy based material that utilises the latest technology to achieve rapid cure and excellent adhesion. Belzona 1212 has built-in surface tolerant technology, enabling the product to bond tenaciously onto steel substrates even when surface preparation is minimal or if the substrate is heavily contaminated with oil or water.

When ideal surface preparation of the metallic substrate cannot be achieved due to lack of time or resources, Belzona 1212 provides a cost-effective repair that can reinstate equipment for years of service.

When fully cured, this two-part system exhibits outstanding mechanical strength and, by virtue of the metallic character of Belzona 1000 Series polymers, will behave and move sympathetically with the metal substrate.



TECHNICAL DATA	Mixing Ratio (Base:Solidifier)	1:1 by volume	5:6 by weight	
	Working Life	9 minutes at 20°C (68°F)		
	Shelf Life	5 years		
	Dry Heat Resistance	200°C (392°F)		
	Adhesion (Tensile Shear)	Grit blasted mild steel - clean and dry: 18.0 MPa (2,615 psi)	Grit blasted mild steel - transformer oil: 20.1 MPa (2,920 psi)	
		Ground mild steel - clean and dry: 17.8 MPa (2,575 psi)	Ground mild steel - transformer oil: 18.0 MPa (2,615 psi)	
	Compressive Strength	69.0 MPa (10,010 psi) 7 day cure at 20°C (68°F)		
	Volume Capacity	212 cm ³ / 12.9 in ³ per 450g unit		
Heat distortion temperature	44°C (111°F) 24 hours cure at 20°C (68°F)			
Abrasion resistance	H10 - 1,061 mm ³ wet	CS17 - 54 mm ³ dry		

CURE TIMES	Temperature	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
	Machinable	2 hours	40 minutes	30 minutes	20 minutes
	Light Loading	4 hours	90 minutes	60 minutes	30 minutes
	Full Loading	12 hours	8 hours	5 hours	2½ hours

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



SURFACE TOLERANT



RAPID CURE



HIGH MECHANICAL STRENGTH



EXCELLENT ADHESION



EASY TO APPLY

Key Benefits:

- **Surface tolerant**

Belzona 1212 can be applied directly onto manually prepared, wet or oil-contaminated surfaces as well as underwater.

- **Excellent adhesion**

Belzona 1212 exhibits high adhesive strength to non-grit blasted contaminated substrates.

- **Rapid cure**

Belzona 1212 cures rapidly after mixing of the two components. It also cures extremely well at temperatures as low as 5°C (41°F).

Application:



Underwater application

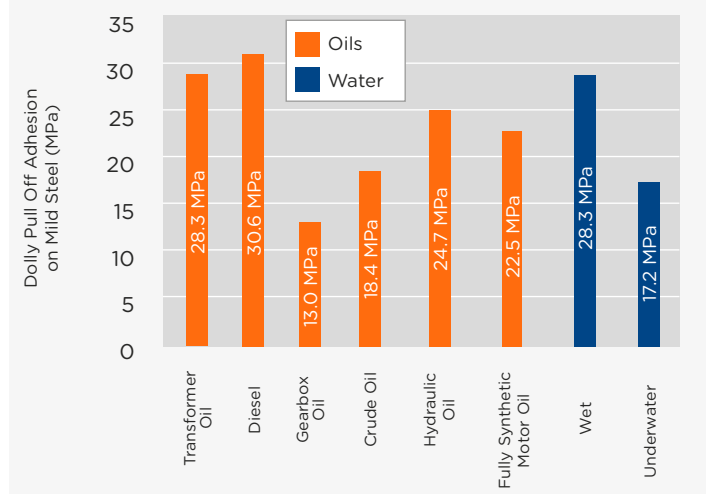


Application to wet, or oil contaminated surfaces

Application Areas:

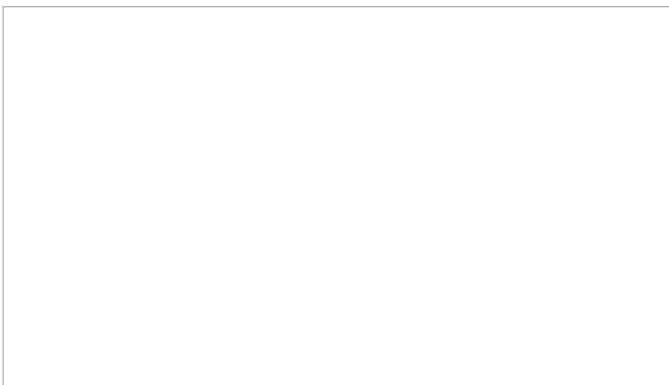
- Plate bonding, corrosion pit filling and localised repair of wet, sweating or oil contaminated pipes where grit blasting cannot be performed
- In-situ sealing of oil and fluid leaks on storage tanks, engines, gearboxes, transformers and sumps
- Long-term repair of offshore structures and marine vessels, including ship hulls, rudders, propellers and ballast tanks, without taking the equipment out of service
- Underwater repairs including use in splash zones and coastal structures

EXCELLENT ADHESION



Belzona 1212 demonstrates excellent adhesion to contaminated mild steel surfaces prepared to SSPC-SP11/ISO 8501-1 St3.

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.