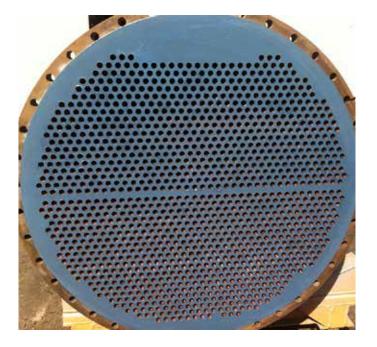
Erosion-Corrosion Resistant Ceramic Coating





Belzona 1321 (Ceramic S-Metal) is a two-component, high-strength material for the protection of equipment against erosion-corrosion.

Designed to operate under continuous immersion, up to 60°C (140°F), this solvent-free system has outstanding chemical resistance and will bond to a wide range of substrates. Belzona 1321 can also be used as an injection material for the shimming and bonding of components.







TECHNICAL DATA	Mixing ratio (base:solidifier)	4 : 1 by volume	11 : 1 by weight		
	Working Life	30 minutes at 25°C (77°F)			
	Shelf Life	5 years			
	Heat resistance	220°C (428°F) dry	60°C (140°F) wet		
	Adhesion (Tensile Shear)	Mild steel: 18.68 MPa (2,710 psi)	Stainless steel: 21.92 MPa (3,180 psi)		
	Compressive Strength	86.18 MPa (12,500 psi) at 20°C (68°F) cure			
	Volume Capacity	422 cm³ (25.7 in³) / 1 kg			
	Heat distortion temperature	48°C (118°F) at 20°C (68°F) cure	87°C (189°F) at 100°C (212°F) cure		
	Abrasion resistance	H10 - 178 mm ³ wet	CS17 - 14 mm³ dry		

A T M F A	Temperature	10°C (50°F)	15°C (59°F)	20°C (68°F)	25°C (77°F)
	No loading or immersion	8 hours	5½ hours	4 hours	3½ hours
	Machining and/or light loading	12 hours	9 hours	6 hours	4½ hours
	Full mechanical or thermal loading	3 days	2 days	1½ day	24 hours
	Immersion in chemicals	5 days	3 days	2 days	1½ day

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



EROSION RESISTANT



CORROSION RESISTANT



CHEMICAL RESISTANT



HIGH COMPRESSIVE STRENGTH



EASY TO APPLY

<mark>1000 Series</mark> BELZONA 1321



Key Benefits:

• Erosion-corrosion resistance

Belzona 1321 offers outstanding erosion and corrosion resistance under immersed conditions.

• Chemical resistance

Belzona 1321 is resistant to a variety of chemicals, including hydrocarbons and process chemicals.

Suitable for injection

Belzona 1321 will not expand, shrink or distort, making it suitable for use as an injection material.

Solvent free

This solvent-free solution reduces the health and safety risks associated with applying material in confined spaces.





Application Areas:

Immersed equipment

This erosion-corrosion resistant coating protects fluid flow equipment such as pumps, pipes, valves.

Heat exchangers

Belzona 1321 can be used to restore heat exchangers suffering from erosion-corrosion damage.

• Contact with potable water

This system is an approved coating which can be applied onto equipment in contact with potable water.

• Load bearing shims

Belzona 1321 can be injected to create load bearing shims due to its high compressive strength and zero shrinkage.

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.