

Protective Coating for High Temperature Immersion



Belzona 1391 (Ceramic HT) is an erosion-corrosion resistant coating system designed to operate under continuous immersion of up to 120°C (248°F).

This 100% solids coating provides excellent resistance to a wide range of aqueous solutions, hydrocarbons and process chemicals. It is easy to mix and can be applied using a stiff bristled brush or applicator.

Belzona 1391 can also be used as a high strength structural adhesive for bonding and creating irregular load bearing shims with good electrical insulation characteristics.

TECHNICAL DATA	Mixing ratio (base:solidifier)	13 : 1 by weight	5 : 1 by volume
	Working life	40 minutes at 20°C (68°F)	
	Shelf life	3 years	
	Dry heat resistance	230°C (446°F) to -40°C (-40°F)	
	Adhesion (tensile shear) mild steel	22.06 MPa (3,200 psi) 20°C (68°F) cure	21.37 MPa (3,100 psi) 100°C (212°F) cure
	Compressive strength	78.6 MPa (11,400 psi) 20°C (68°F) cure	99.28 MPa (14,400 psi) 100°C (212°F) cure
	Volume capacity	431 cm ³ (26.1in ³) / 1 kg	
	Heat distortion temperature	48°C (118°F) at 20°C (68°F) cure	145°C (293°F) at 100°C (212°F) fully post-cured
	Abrasion resistance	H10 - 550 mm ³ 20°C (68°F) cure, wet	H10 - 39 mm ³ 100°C (212°F) cure, wet

CURE TIMES	Temperature	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
	Use involving no loading	8 hours	5½ hours	2 hours	1½ hours
	Light loading	16 hours	9 hours	3 hours	2 hours
	Cold water immersion	7 days	4 days	2 days	1½ days
	Hot water immersion	14 days	7 days	3 days	2 days

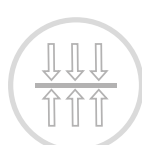
*Please visit the [product page](#) and consult the Product Specification Sheet (PSS) and Instructions for Use (IFU) for the latest technical data.



**HIGH
TEMPERATURE
RESISTANCE**



NO SHRINKAGE



**HIGH
COMPRESSIVE
STRENGTH**



SOLVENT FREE



**CHEMICAL
RESISTANCE**

Key Benefits:

- Operates at high temperature under immersed conditions

This material provides erosion and corrosion resistance to equipment operating under immersion up to 120°C (248°F).

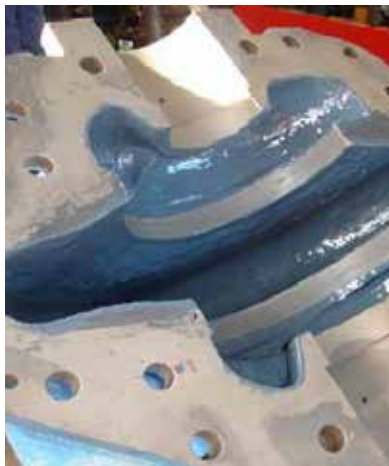
- Excellent chemical resistance

This coating provides excellent resistance to a wide range of aqueous solutions, hydrocarbons and process chemicals.

- High compressive strength

This material can also be used as a high strength structural adhesive for metal bonding and to create irregular load bearing shims where a high temperature material is required.

Applications:



Pump lining



Vessel lining

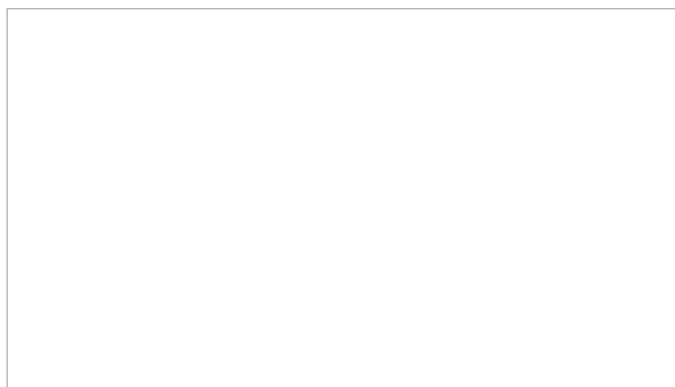
Application Areas:

- Oil production separators
- Condensate extraction pumps
- Calorifiers
- Evaporators
- Autoclaves
- Scrubber units
- Heat exchangers
- Condensate return tanks
- Distillation units
- Absorber towers



Exhaust on yacht protected

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.