

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 (26.1 in 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

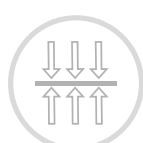
*Please visit the [product page](#) and consult the Product Specification Sheet (PSS) and Instructions for Use (IFU) for the latest technical data.



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

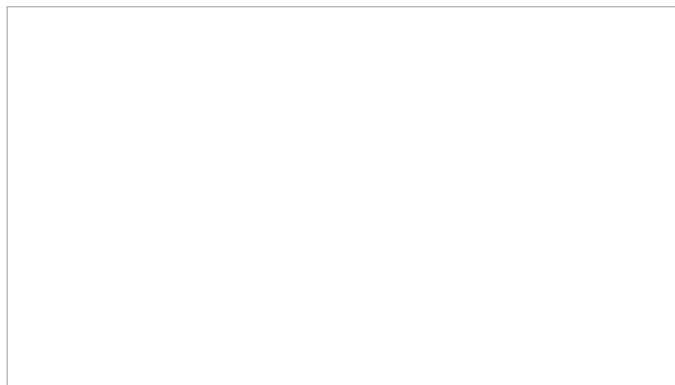
Application Areas:

- 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.