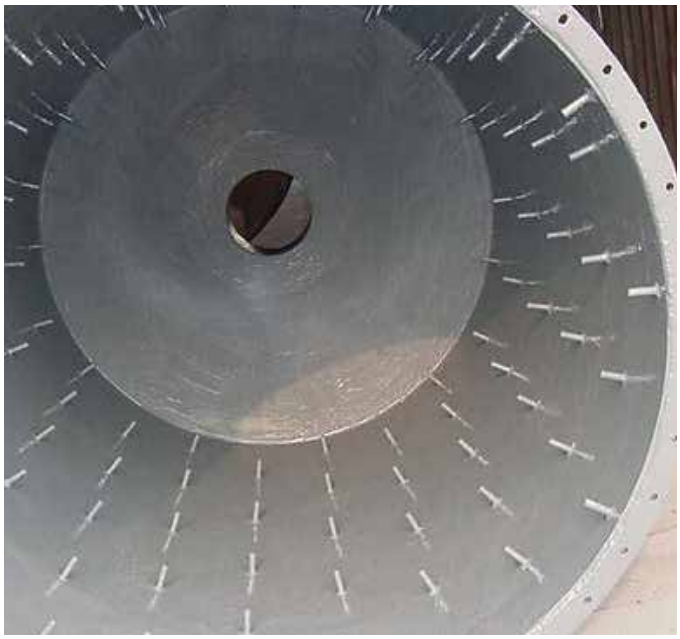
Coating for HighTemperature Acid Immersion

BELZONA® 1392



Belzona 1392 (Ceramic HT2) is a two component high temperature coating system designed to resist hydrocarbons and aqueous solutions. This product was specifically designed to exhibit excellent chemical resistance, particularly in systems contaminated by acid. It also provides excellent erosion resistance.

Belzona 1392 (Ceramic HT2) can operate continuously in immersed conditions at temperatures up to 120°C (248°F). It also has excellent resistance to process chemicals and conditions such as steam out and rapid depressurisation.

TECHNICAL DATA	
Mixing ratio (base:solidifier)	20 : 1 by weight
Working life	35 minutes at 20°C (68°F)
Shelf life	2 years
Dry heat resistance	230°C (446°F)
Adhesion (tensile shear)	Mild steel: 18.13 MPa (2,630 psi) at 20°C (68°F) cure
Compressive strength	102.04 MPa (14,800 psi) at 20°C (68°F) cure
Volume capacity	439 cm^3 (26.8 in^3) / 1 kg
Heat distortion temperature	49°C (118°F) at 20°C (68°F) cure
Coverage rate	0.73 m^2 (7.9 ft^2) / 1 kg at 600 microns (24 mils)
Abrasion resistance	H10 - 145 mm^3 100°C (212°F) cure, wet

CURE TIMES			
Temperature	20°C (68°F)	30°C (86°F)	40°C (104°F)
Time until inspection	12 hours	5 hours	3 hours
Time until full service	96 hours	18 hours	10 hours
Time until dry post cure (if required)	12 hours	5 hours	3 hours
Time until wet post cure (if required)	28 hours	8 hours	5 hours

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

HIGH TEMPERATURE RESISTANT

CHEMICAL RESISTANT

SOLVENT-FREE

HIGH COMPRESSIVE STRENGTH

SIMPLE APPLICATION

1000 Series

BELZONA 1392

BELZONA® Repair • Protect • Improve

Key Benefits:

Excellent resistance to corrosion

This coating is specially designed to provide erosion-corrosion protection in acid contaminated water/ hydrocarbon systems.

High chemical resistance

This material resists water, aqueous solutions, hydrocarbons in acid contaminated water and hydrocarbons up to temperatures of 120°C (248°F) in continuous immersion.

Simple application

This easy to use epoxy coating can be applied by brush or applicator eliminating the need for specialist tools and will cure at room temperature.

Application Examples:

Screw conveyors protected

Engine block coated

Application Areas:

- Condensate extraction pumps
- Condensate return tanks
- Evaporators
- Heat exchanger barrels
- Separators
- Autoclaves
- Scrubber units
- Rotary reactor
- Calorifiers
- Distillation units
- Slug catchers
- Absorber towers

Key

Excellent	Ex	No significant deterioration/barrier properties retained for greater than 52 weeks. *Suitable for all applications including long term immersion*
Good	G	No significant deterioration/barrier properties retained for 12-52 weeks. *Suitable for short short-term immersion and general chemical contact*
Moderate	M	No significant deterioration/barrier properties retained for 1-12 weeks. *Suitable for applications involving short term chemical contact e.g. spillage, splash or secondary containment*
*	Ex	Product must be post cured to deliver quoted chemical resistance

Inorganic Acids

Chemical name *(synonym)*	Chemical Formula *(synonym)*	Concentration	Chemical Resistance 20°C 68°C	Chemical Resistance 60°C 140°C
Hydrochloric acid	HCl	36%	G	G
		20%	Ex*	G
		10%	Ex*	G
		5%	Ex	Ex
		3%	Ex	Ex
Nitric acid	HNO_3	20%	Ex*	M
		10%	Ex*	G
		5%	Ex*	G
Nitrous acid	HNO_2	20%	Ex*	M
Phosphoric acid	H_3PO_4	40%	Ex*	G
		20%	Ex*	G
		10%	Ex*	G
		5%	Ex	G
Sulphuric acid	H_2SO_4	98%	G*	M
		70%	Ex*	Ex
		50%	Ex*	Ex
		30%	Ex*	Ex
		20%	Ex*	Ex
		10%	Ex*	Ex
		5%	Ex*	Ex

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.