

PRODUCT SPECIFICATION SHEET

BELZONA 1392

FN10035



GENERAL INFORMATION

Product Description:

A two-component high temperature coating system resistant to water, aqueous solutions and hydrocarbons up to a temperature of 248°F (120°C). Designed specifically to provide erosion corrosion protection in acid contaminated water/hydrocarbon systems. For use in Original Equipment Manufacture or repair situations.

Application Areas:

When mixed and applied as detailed in the Belzona Instructions for Use (IFU), the system is ideally suited for application to the following:

- Condensate extraction pumps
- Heat exchanger barrels
- Scrubber units
- Condensate return tanks
- Oil/gas and oil/water separators
- Calorifiers
- Evaporators
- Autoclaves
- Distillation units

APPLICATION INFORMATION

Working Life

Will vary according to temperature. At 68°F (20°C) the usable life of mixed material is 35 minutes.

Cure Time

Allow the applied material to solidify for the times shown in the Belzona IFU before subjecting it to the conditions indicated.

** In certain instances, it may be advantageous to post cure material prior to putting into service where chemical contact is involved. Refer to Belzona for specific recommendations.*

Limitations of Use

Belzona 1392 should not be applied at temperatures below 59°F (15°C).

Volume Capacity

26.8 cu.in. (439 cm³)/kg.

Coverage rate

Belzona 1392 should be applied as a two coat system at a recommended average thickness of 18 mil (450 µm) per coat.

At the minimum recommended two coat system thickness of 24 mil (600 µm), the theoretical coverage rate will be 7.9 ft² (0.73m²)/kg.

Base Component

Appearance Paste
Colour Grey
Density 2.36 - 2.56 g/cm³

Solidifier Component

Appearance Liquid
Colour Pale amber
Density 0.91 - 0.95 g/cm³

Mixed Properties

Mixing Ratio by Weight (Base : Solidifier) 20 : 1
Mixed Form Liquid
Sag Resistance nil at 50 mil (1.25 mm)
Mixed Density 2.28 g/cm³
VOC content (ASTM D2369 / EPA ref. 24) 0.98% / 22.26 g/L

The above application information serves as introductory guide only. For full application details including the recommended application procedure/technique, refer to the Belzona IFU which is enclosed with each packaged product.

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HARDNESS

Shore D & Barcol Hardness

The Shore D and Barcol hardness, when determined in accordance with ASTM D2240 and ASTM D2583, will typically be:

	Ambient cure (68°F/20°C)	Post cure (212°F/100°C)
Shore D	84	87
Barcol 934-1	20	33
Barcol 935	86	94

Koenig Pendulum

When tested to ISO 1522 the Koenig damping time of the ambient cured coating will typically be

152 seconds	68°F (20°C) cure
150 seconds	212°F (100°C) cure

HEAT RESISTANCE

Heat Distortion Temperature (HDT)

Tested to ASTM D648 (264 psi fibre stress), typical values obtained will be:

118°F (49°C)	when cured at 68°F (20°C)
257°F (125°C)	when post cured at 212°F (100°C)
390°F (199°C)	when post cured at 356°F (180°C)

Atlas Cell Cold Wall Immersion Test

When tested in accordance with NACE TM 0174 procedure A, the coating will exhibit no blistering or rusting (ASTM D714 rating 10; ASTM D610 rating 10) after 12 months immersion in both 5% Sulphuric acid and 5% Hydrochloric acid at 194°F (90°C).

Immersion Resistance

Suitable for service at temperatures up to 248°F (120°C) but refer to chemical resistance data for chemical contact limitations.

Steam-out Resistance

Once fully cured the coating will exhibit no blistering, cracking or delamination after 96 hours exposure to pressurized steam at 410°F (210°C).

Dry Heat Resistance

The indicated degradation temperature in air based on Differential Scanning Calorimetry (DSC) operated in accordance with ISO11357 is typically 446°F (230°C).

IMPACT RESISTANCE

Izod Pendulum

Izod impact strength, when determined in accordance with ASTM D256, will typically be:

	Reversed notched Izod Impact Strength	Un-notched Izod Impact Strength
68°F/20°C cure & test	4.3 KJ/m ² 46.6 J/m	4.8 KJ/m ² 60.9 J/m
212°F/100°C cure & 68°F/20°C test	4.6 KJ/m ² 48.9 J/m	6.2 KJ/m ² 79.1 J/m

THERMAL PROPERTIES

Thermal Conductivity

When tested in accordance with ASTM E1461-13 at a temperature of 100°C (212°F), the thermal conductivity will typically be 0.479 W/m·K.

Low Temperature Thermal Shock

Coated steel panels will exhibit no blistering, cracking or delamination after multiple cycles of rapid cooling from 212°F (100°C) to -76°F (-60°C).

Thermal Cycling

When tested in accordance with section 9 of NACE TM0304 the coating passed after 252 cycles between +140°F and -22°F (+60°C and -30°C).

THICK FILM CRACKING

Thick Film Cracking

When tested in accordance with Section 12 of NACE TM0104, the coating at three times recommended thickness, exhibited no cracking after 12 weeks immersion in seawater at 104°F (40°C).

SHELF LIFE

Separate base and solidifier components shall have a shelf life of 2 years from date of manufacture when stored in their original unopened containers between 41°F (5°C) and 86°F (30°C).

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WARRANTY

This product will meet the performance claims stated herein when material is stored and used as instructed in the Belzona Information For Use leaflet. Belzona ensures that all its products are carefully manufactured to ensure the highest quality possible and are tested strictly in accordance with universally recognized standards (ASTM, ANSI, BS, DIN, ISO, etc.). Since Belzona has no control over the use of the product described herein, no warranty for any application can be given.

AVAILABILITY AND COST

Belzona 1392 is available from a network of Belzona Distributors throughout the world for prompt delivery to the application site. For information, consult the Belzona Distributor in your area.

MANUFACTURER / SUPPLIER

Belzona Limited,
Claro Road, Harrogate,
HG1 4DS, UK

Belzona Inc.
14300 NW 60th Ave,
Miami Lakes, FL, 33014, USA

HEALTH AND SAFETY

Prior to using this material, please consult the relevant Safety Data Sheets.

TECHNICAL SERVICE

Complete technical assistance is available and includes fully trained Technical Consultants, technical service personnel and fully staffed research, development and quality control laboratories.

The technical data contained herein is based on the results of long term tests carried out in our laboratories and to the best of our knowledge is true and accurate on the date of publication. It is however subject to change without prior notice and the user should contact Belzona to verify the technical data is correct before specifying or ordering. No guarantee of accuracy is given or implied. We assume no responsibility for rates of coverage, performance or injury resulting from use. Liability, if any, is limited to the replacement of products. No other warranty or guarantee of any kind is made by Belzona, express or implied, whether statutory, by operation of law or otherwise, including merchantability or fitness for a particular purpose.

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