

Composite Repair System



Belzona SuperWrap II is a fully ISO/ASME compliant composite repair solution designed to restore strength to weakened or holed metallic substrates. Developed for applications on pipes and process vessels, it is also suitable for safety critical and pressurised systems, and can be used on bends, tees and other complex geometries.

A unique combination of a high performance 100% solids resin, bespoke carbon and glass fibre reinforcement sheet, and a consolidation film ensures a quick and simple design and installation. Avoiding the need for costly shutdown and hot work, it can remain maintenance-free for up to 20 years.

The Belzona SuperWrap II system offers four specialised resins, each designed for specific application temperatures and service conditions. Among these is a high-temperature resin capable of withstanding up to 150°C/302°F, as well as a surface-tolerant resin, engineered for direct application to damp, wet and underwater surfaces without the need for abrasive blasting.



Belzona SuperWrap II can be designed and applied in accordance with ISO 24817/ASME PCC-2 standards

Belzona SuperWrap II Selection Guide	Belzona 1981 Winter Grade 	Belzona 1982 Tropical Grade 	Belzona 1983 High Temperature Grade 	Belzona 1984 Surface Tolerant Grade
Application Temperature Range	5°C - 20°C (41°F - 68°F)	20°C - 40°C (68°F - 104°F)	5°C - 40°C (41°F - 104°F)	5°C - 40°C (41°F - 104°F)
Minimum Service Temperature	-60°C (-76°F)	-60°C (-76°F)	-60°C (-76°F)	-60°C (-76°F)
Maximum Service Temperature	60°C (140°F)	80°C (176°F)	150°C (302°F)	50°C (122°F)
Surface Preparation Requirements (● Grit Blast - ISO 8501-1/SSPC SP 10) (○ Power-Tool - SSPC SP 11)	●	●	●	○
Surface Cleanliness	Clean/Dry	Clean/Dry	Clean/Dry	Damp/Wet/ Underwater
ISO/ASME Compliant	✓	✓	✓	✓



QUICK RETURN TO SERVICE



ENGINEERED REPAIR



STRONG AND DURABLE



TRAINING AND SUPPORT



EXTENSIVE DAMAGE REPAIRED



NO HOT WORK

Application:



1. Design and Resin Selection



2. Surface Preparation



3. Rebuild and Repair



4. Application



5. Consolidation and Cure



6. Inspection and Full Service

Key Benefits:

- **Quick return to service**

Wet-on-wet application procedure and fast cure ensure minimum downtime. Thin wall repairs can be completed in service/on line with no need for shutdown.

- **Extensive damage repaired**

In combination with Belzona's specialist paste/rebuild materials, through-wall defects can be easily repaired, avoiding the need for hot work.

- **Fully compliant engineered solution**

Belzona SuperWrap II designs and applications can be carried out in accordance with ISO 24817 and ASME PCC-2.

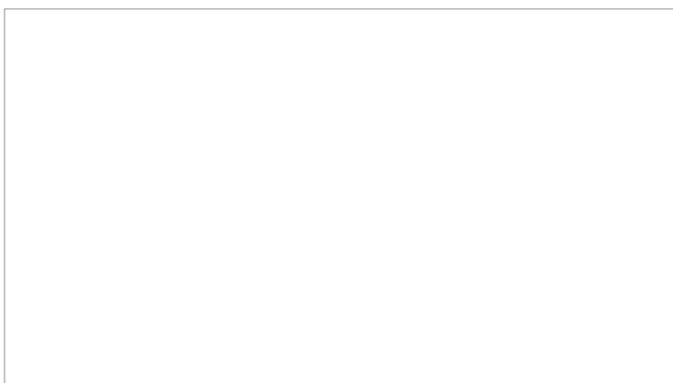
- **Strong, durable and long-lasting solution**

High Young's modulus and the high adhesion to the substrate ensure the long-term integrity of the repair and maximise performance, especially on through-wall defects.

- **Global training and support**

Fully validated training is provided at global training centres, adhering to internationally recognised engineering standards, for Installers, Supervisors, and Designers.

For more information, please contact your local Belzona representative:



Belzona SuperWrap II is ideally suited for:

- Pipelines and piping of various geometries
- Pipework including flanges, valves, nozzles and instrumentation
- Tanks side walls and roofs
- Support pads, saddles and attachments
- Existing repairs on pipes including metallic plates, clamps or patches
- Pressure vessels



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.