

Steel Protection System for Surfaces Subject to Environmental Corrosion



Belzona 6111 (Liquid Anode) is a zinc-rich epoxy system providing long-term cathodic protection of blast-cleaned steelwork. It provides ideal protection for both marine and industrial environments where long-term corrosion resistance is required.

The material is easy to mix and can be spray-or brush-applied (without the need for hot work). Additionally, it contains more than 90% high purity zinc dust in the dry film, assuring ultimate cathodic protection. Even at damaged areas, rust creep is prevented. By choosing Belzona 6111, maintenance procedures are simplified and any costly structural rebuilding is avoided, therefore reducing equipment downtime.

TECHNICAL DATA	Mixing ratio (base:solidifier)	3.5 : 1 by volume		
	Working life	72 hours at 10°C (50°F)	48 hours at 20°C (68°F)	24 hours at 30°C (86°F)
	Shelf life	3 years		
	Coverage rate	1.8 m ² (19.4 ft ²) / 1 kg at 38 microns (1.5 mils)		
	Heat resistance	200°C (392°F) dry	60°C (140°F) wet	

CURE TIMES	Temperature	10°C (50°F)	20°C (68°F)	30°C (86°F)
	Touch dry	17 min	8 min	3 min
	Minimal overcoating time	32 hours	16 hours	8 hours
	Maximum overcoating time	7 days	5 days	3 days
	Full cure	10 days	7 days	5 days

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



BRUSH OR SPRAY APPLIED



OUTSTANDING CORROSION RESISTANCE



NO HOT WORK REQUIRED



SELF-HEALING PROPERTIES



OVERCOATABLE TO INCREASE CHEMICAL RESISTANCE

Key Benefits:

- Easy to apply

The coating is easy to apply regardless of the size of the application. It can be brush-applied for precision or spray-applied for quick coverage of larger surface areas.

- Long-term corrosion protection

Belzona 6111 is proven to resist corrosion for 10 years or longer, depending on the environmental conditions.

- Prevents rust creep

Areas of damage will be protected through cathodic protection and, together with excellent adhesion to the substrate, rust creep and flaking is eliminated.

- Displays self-healing properties

In addition to the above, the formation of zinc oxides provides “self-healing” properties to prevent corrosion in small damaged/scratched areas.

- Overcoatable for chemical resistance

The material can also be used in areas where chemical resistance is required by using Belzona 5111 (Ceramic Cladding) to overcoat it as demonstrated to the right.

Application Areas:

- All structural steelwork
- Bridges
- Cooling towers
- Fire escapes
- Hoppers
- Pipes
- Silos
- Tanks

Application of the Belzona 6111/5111 system:



Vessel suffering from external corrosion



Vessel coated with Belzona 6111 providing a cathodic protection to the metal surface



Completed application using Belzona 5111 for further protection

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.