

# Encapsulating membrane for flanges, fittings and connectors



**BELZONA**  
**3412**



Belzona 3412 is a flexible encapsulating membrane, which protects various joints and equipment from moisture ingress, dust and the environment.

It can be applied by brush or spray gun (including the Belzona Spray Gun) to new or corroded assets, eliminating corrosion. Fibres in its formulation enhance Belzona 3412's durability, whilst the in-built corrosion inhibitor ensures long-term protection.

When used in conjunction with Belzona 8411, a release agent/corrosion inhibitor, Belzona 3412 can be cut and peeled for inspection during maintenance, then resealed for continued protection.

Belzona 3412 is available in two colours: grey and bright orange for high visibility. It is also an isocyanate-free system.

TECHNICAL DATA	Mixing Ratio (Base : Solidifier)	13 : 1 by weight	
	Working Life	40 minutes at 20°C (68°F) and 50% relative humidity	
	Shelf Life	2 years	
	Coverage Rate	0.8 m <sup>2</sup> (8.6 ft <sup>2</sup> ) / 1 kg at 1,000 microns (40 mils)	
	UV Resistance	No chalking or colour change following 8500 hours exposure, ISO 4892-2 (Xenon Arc)	
	Heat Resistance	Dry heat resistance: 90°C (194°F)	
	Tear Strength	1830 kg/m (100 pli) unreinforced	3180 kg/m (180 pli) reinforced
	Elongation	260% unreinforced	52% reinforced
	Tensile Strength	3.4 MPa (500 psi) unreinforced	5.5 MPa (800 psi) reinforced

CURE TIMES	Substrate Temperature	5°C (41°F)	10°C (50°F)	20°C (68°F)	40°C (104°F)
	30% relative humidity	7 days	6 days	5 days	4 days
	50% relative humidity	6 days	5 days	4 days	3 days
	80% relative humidity	5 days	4 days	3 days	2 days

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



NO HOT WORK



SPRAYABLE OR  
BRUSH-APPLIED



WEATHERPROOF



DURABLE



FLEXIBLE IN  
SERVICE



INSPECTABLE

## Application Areas:

- **Sealing joints, bolts and nuts**

Sealing flanges, fittings and other connectors to protect them from the environment.

- **Waterproofing**

Preventing moisture ingress and protecting from dust in various systems.

- **Preservation**

Protecting new or standby equipment from corrosion during storage.

## Application Techniques:

Belzona 3412 is applied as a two-coat system. See the Instructions for Use (IFU) for further application information.



Brush



Spray

## Key Benefits:

- **Simple application**

No specialist tools required. Quick brush or spray application to manually prepared surfaces. Also works in conjunction with the Belzona Spray Gun.

- **Outstanding corrosion protection**

Belzona 3412 possesses high adhesion, durability and flexibility, preventing any moisture ingress.

- **Peel and reseal feature**

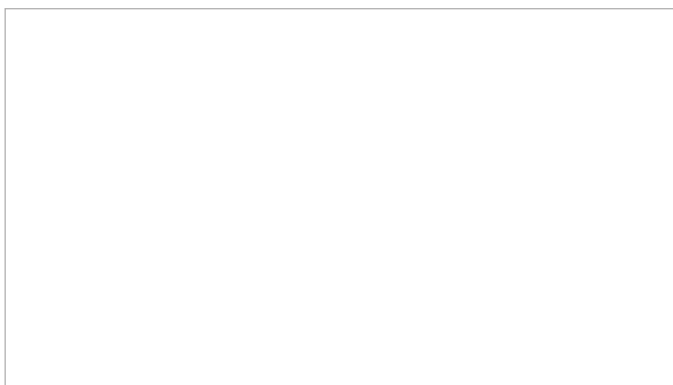
Encapsulating membrane can be cut and peeled for inspection during maintenance, then resealed to reinstate protection.

- **Safe to use**

Belzona 3412 is a moisture-cured, isocyanate-free system.



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.