3D-Printed Mesh for Live Leak Sealing Applications

BELZONA®
Repair • Protect • Improve
9621

Used in conjunction with Belzona 1212, the 3D-printed mesh facilitates live leak sealing of small holes on straight pipes operating at pressures of up to ~10Bar.

Belzona 9621 moulds over various pipe diameters and eliminates the need for a prefabricated bypass plate.

Belzona 1212, supplied separately, is a fast-curing surface-tolerant epoxy material. It demonstrates outstanding adhesion and mechanical properties offering lasting protection.

TECHNICAL DATA

Mixing ratio *(Base : Solidifier)*	14.5 : 1 by weight* *Refer to IFU for thickness greater than 38 mm (1 1/2 inch)*	
Working life	30 minutes at 25°C (77°F)	
Shelf life	3 years	
compressive strength	102.9 MPa (14,930 psi) at 20°C (68°F) cure and test	
Hardness	Shore D: 89.5	Barcol: 40
Adhesion *(pull-off) *cohesive failure of substrate*	Mild steel: 26.8 MPa (3,880 psi)	Concrete: 6.8 MPa (980 psi)*
Shear strength	45.4 MPa (6,590 psi) at 20°C (68°F) cure and test	
Volume capacity	4360 cm³ (266 in³) / 6.95 kg at 12-100 mm (0.5-4 in)	
Tensile strength	44.2 MPa (6,410 psi) at 20°C (68°F) cure and test	
Adhesion *(tensile shear)*	Mild steel: 24.6 MPa (3,570 psi)	Stainless steel: 20.0 MPa (2,900 psi)

CURE TIMES

Temperature	15°C (60°F)	20°C (68°F)	30°C (86°F)	25°C (77°F)
Cure times	48 hours	24 hours	12 hours	5 hours

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

SIMPLE APPLICATION   **FAST CURING**   **QUICK RETURN TO SERVICE**   **PRESSURE RESISTANT**

Step-by-step application:

1. Roughen surface

2. Cut hole in the reinforcement sheet

3. Dry-fit sheet to mesh

4. Mix Belzona 1212

5. Wet-out pipe

6. Wet-out mesh

7. Wet-out sheet

8. Position mesh and sheet
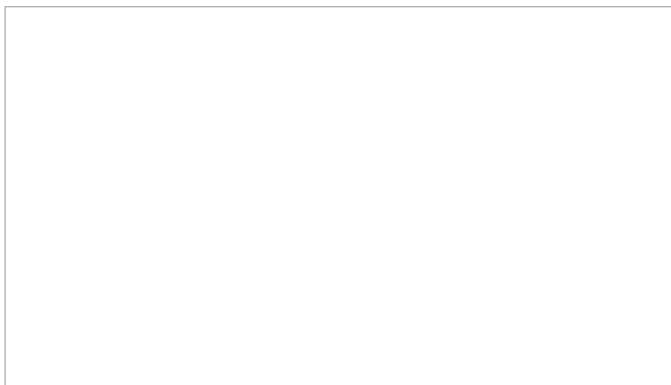

9. Wrap and smooth

10. Fit bolt and tighten

11. Completed application

Watch application video:

Watch on BelzonaTV

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.