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)	1:1 by volume	5:6 by weight
Working Life	9 minutes at 20°C (68°F)	
Shelf Life	5 years	
Dry Heat Resistance	200°C (392°F)	
Adhesion (Tensile Shear)	Grit blasted mild steel - clean and dry: 18.0 MPa (2,615 psi)	Grit blasted mild steel - transformer oil: 20.1 MPa (2,920 psi)
	Ground mild steel - clean and dry: 17.8 MPa (2,575 psi)	Ground mild steel - transformer oil: 18.0 MPa (2,615 psi)
Compressive Strength	69.0 MPa (10,010 psi) 7 day cure at 20°C (68°F)	
Volume Capacity	212 cm³/ 12.9 in³ per 450g unit	
Heat distortion temperature	44°C (111°F) 24 hours cure at 20°C (68°F)	
Abrasion resistance	H10 - 1,061 mm³ wet	CS17 - 54 mm³ dry

CURE TIMES

Temperature	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
Machinable	2 hours	40 minutes	30 minutes	20 minutes
Light Loading	4 hours	90 minutes	60 minutes	30 minutes
Full Loading	12 hours	8 hours	5 hours	2½ 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
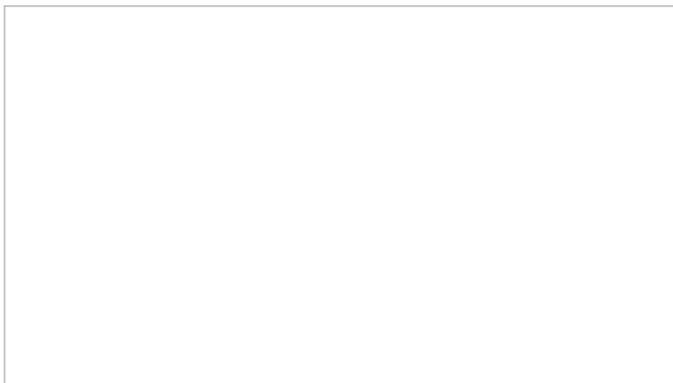
10. Fit bolt and tighten

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.