

Moisture-Tolerant Protective Barrier Coating



5831



Belzona 5831 (ST-Barrier) is an environmental moisture-tolerant barrier coating for the protection of metallic and non-metallic surfaces.

It has been specifically formulated for application to surfaces that cannot be dry for application. The product displaces contaminants from the surface ensuring maximum adhesion to damp, wet or oily surfaces and even underwater.

This solvent-free material can be applied to virtually any surface and will cure even in low-temperature environments, as well as underwater.

| | | | | |
|----------------------|----------------------------------|---|--|--|
| TECHNICAL DATA | Mixing ratio (Base : Solidifier) | 1:1 by volume | 1.75:1 by weight | |
| | Working life | 45 minutes at 20°C (68°F) | | |
| | Shelf life | 5 years | | |
| | Adhesion (tensile shear) | Mild steel (clean and dry) - ground: 12.2 MPa (1,770 psi) | Mild steel (clean and dry) - blasted: 13.2 MPa (1,920 psi) | |
| | | Mild steel (underwater) - ground: 10.6 MPa (1,540 psi) | Mild steel (underwater) - blasted: 7.5 MPa (1,090 psi) | |
| | | Mild steel (oil contaminated) - ground: 12.5 MPa (1,810 psi) | Mild steel (oil contaminated) - blasted: 13.8 MPa (2,010 psi) | |
| | Coverage rate | 2.5 m ² (27 ft ²) / litre at 400 microns (16 mils) | | |
| Shore D hardness | 72 | | | |
| Compressive strength | 21.2 MPa (3,070 psi) | | | |

| | | | | |
|------------|-------------------------|-------------|-------------|-------------|
| CURE TIMES | Temperature | 10°C (50°F) | 20°C (68°F) | 30°C (86°F) |
| | Light loading | 48 hours | 24 hours | 12 hours |
| | Full mechanical loading | 14 days | 5 days | 2 days |

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



SURFACE TOLERANT



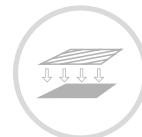
CHEMICAL RESISTANT



COLD AND DAMP CURE



CORROSION RESISTANT



BONDS TO MANY SUBSTRATES

5000 Series BELZONA 5831

Key Benefits:

- **Versatile material**

Can be applied onto wet, damp and oil-contaminated surfaces. Cures in varied temperature conditions.

- **Simple application, lasting protection**

With a simple 1:1 volume mix ratio, it can be brush-applied for continuous protection, also preventing galvanic corrosion.

- **Repair and protect system**

Can be used as a complete repair solution in combination with Belzona 1161, a paste grade repair composite.



Belzona 5831 used for transformer oil leak sealing

Application Areas:

- Bunds
- Clarifiers
- Cooling tower pans
- Marine buoys
- Pipework
- Risers
- Splash zones
- Steel and concrete piling
- Submersible pumps
- Tanks
- Transformers
- Valves

Before and After:



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.