

Protective Coating and Repair System for Potable Water Contact


BELZONA®
5812DW



Belzona 5812DW is an NSF (ANSI 61) certified coating for metallic and non-metallic surfaces in contact with aqueous solutions.

Outstanding chemical protection properties make it an ideal solution for municipal water departments. NSF certified for tanks with ≥ 500 gallons capacity, ≥ 6 " dia pipes as well as valves and fittings ≥ 4 " in size.

This material bonds tenaciously to damp concrete and cures at a temperature as low as 5°C/ 40°F. Combination with Belzona 9241DW aggregate creates a high-build NSF approved concrete repair system.

TECHNICAL DATA	Mixing ratio (Base:Solidifier)	2.6:1 by volume	4:1 by weight
	Working life	1 hour at 20°C (68°F)	
	Shelf life	5 years	
	Heat resistance	50°C (122°F) in continuous immersion in aqueous solutions	
	Atlas cell testing (NACE TM01-74)	No blistering or rusting is observed after 6 month immersion at 40°C (104°F)	
	Compressive strength	7,310 psi (50.4 MPa) after 7 day cure at 22°C (72°F)	
	Adhesion (tensile shear)	Aluminium: 13.4 MPa (1,940 psi)	Mild steel: 21.6 MPa (3,130 psi)
	Coverage rate	4m ² (43ft ²) / liter at 250 microns (10 mils)	

CURE TIMES	Temperature	5°C (40°F)	10°C (50°F)	22°C (72°F)	30°C (86°F)
	Light loading	29 hours	1 day	6 hours	3 hours
	Full mechanical/thermal loading or water immersion	5 days	3 days	2 days	1 day

*Please visit the [product page](#) and consult the Product Specification Sheet (PSS) and Instructions for Use (IFU) for the latest technical data.



**BRUSH OR
SPRAY APPLIED**



**COLD AND
DAMP CURE**



**CORROSION
RESISTANT**



**HIGH
ADHESION**

Key Benefits:

- **Versatile application**

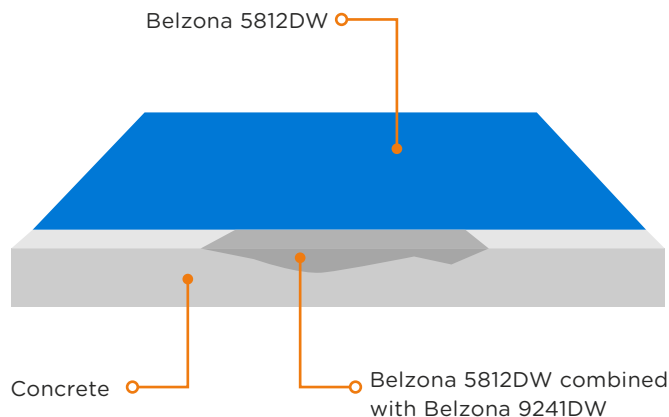
Spray- or brush-applied onto metallic surfaces, concrete, brick and others. Cures in low-temperature and damp conditions.

- **Excellent chemical resistance**

Resists various aqueous solutions and is suitable for contact with potable water.

- **Coating and high-build repair**

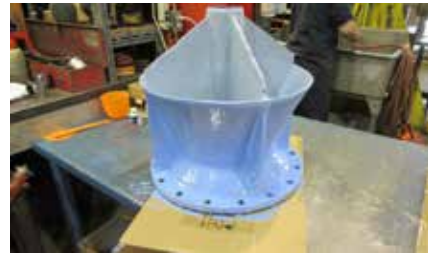
Can be applied as a two coat system or, when combined with aggregate, an NSF approved concrete repair solution.



Application Areas:

- Concrete
- Clarifiers
- Cooling tower pans
- External pipework
- Fittings
- Internal pipework
- Manholes
- Steel and concrete piling
- Tanks
- Valves
- Water boxes

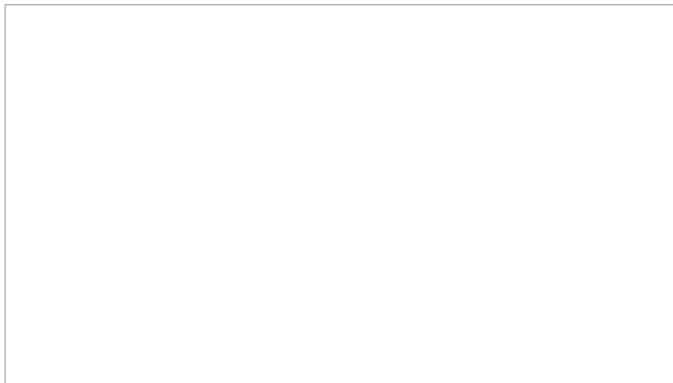
Before and After:



Before

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.