

High Performance & UV-Stable Coating for Leading Edge Protection



5721



Belzona 5721 is a 2-component, high-performance coating, specifically formulated for protecting the leading edge of wind turbine blades from erosion and impact damage.

This system is ideally suited for the rigours of in-situ applications, being easy to apply by brush in a single coat. Together with its low-temperature cure technology, Belzona 5721 can maximise available maintenance opportunities and ensure the turbine's fast return to service.

It is also safe to use due to being cold applied without the need for specialist tools or equipment. Furthermore, the Belzona solution is 100% solids and solvent free, making it suitable for factory application.

TECHNICAL DATA	Mixing ratio (Base : Solidifier)	1.75 : 1 by volume	2.66 : 1 by weight
	Coverage rate	1.3 m ² (14 ft ²) / kg at 500 microns (20 mils)	
	Shelf life	3 years	
	Working life	30 minutes at 5-40°C (41-104°F), 65% RH	
	Rain erosion	When tested in accordance with ASTM G73 and DNVGL-RP-0171 at a thickness of 500 and 1000 microns, at a tip velocity of 125 m/s (1000 rpm), a flow rate of 65 L/hr and mean droplet size of 2.46mm, the breakthrough to substrate time was 13 hours and 21 hours respectively .	
	Solid Particle Impingement	8.8mm ³ loss following direct impact of 50g dry silica sand at a velocity of 70 m/s (ASTM G76)	
	Adhesion (pull-off)	GRP composite: 10.5 MPa (1520 psi) at 20°C (68°F), cohesive failure of GRP composite	
	Adhesion (tensile shear)	Grit blasted mild steel: 25.2 MPa (3,650 psi) at 20°C (68°F)	
	UV resistance	No chalking or colour change following >4000 hours exposure, ISO 4892-2 (Xenon Arc)	

CURE TIMES	Temperature	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
	Time until touch dry (overcoatable)	30 - 45 mins				
	Hard Dry (Movement and light loading)	3 hours	3 hours	2 ½ hours	2 ½ hours	2 hours
	Time until full service	6 hours	6 hours	5 hours	5 hours	4 hours

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



COLD CURING



FAST RETURN TO SERVICE



EROSION RESISTANT



UV RESISTANT



SOLVENT FREE

Key Benefits:

- **Erosion resistant**

Erosion protection against rain and debris, specifically designed for leading edge protection.

- **Fast return to service**

Fast return to service at low ambient temperatures. Overcoatable in 30 mins, with full cure in 6 hours at 5°C (41°F).

- **Easy to use**

This solvent-free system is easy to mix and apply by brush, without the need for specialist tools.

- **Durable**

Outstanding adhesion to GRP (Glass Reinforced Plastic).

- **UV stable**

Excellent long-term protection against the effects of UV degradation.

- **Versatile**

Suitable for application on to similar types of equipment, including fan blades.



Belzona 5721 is available in two colours - White and Light Grey (RAL 7035)



The unit size of Belzona 5721 is optimised for in-situ application

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.