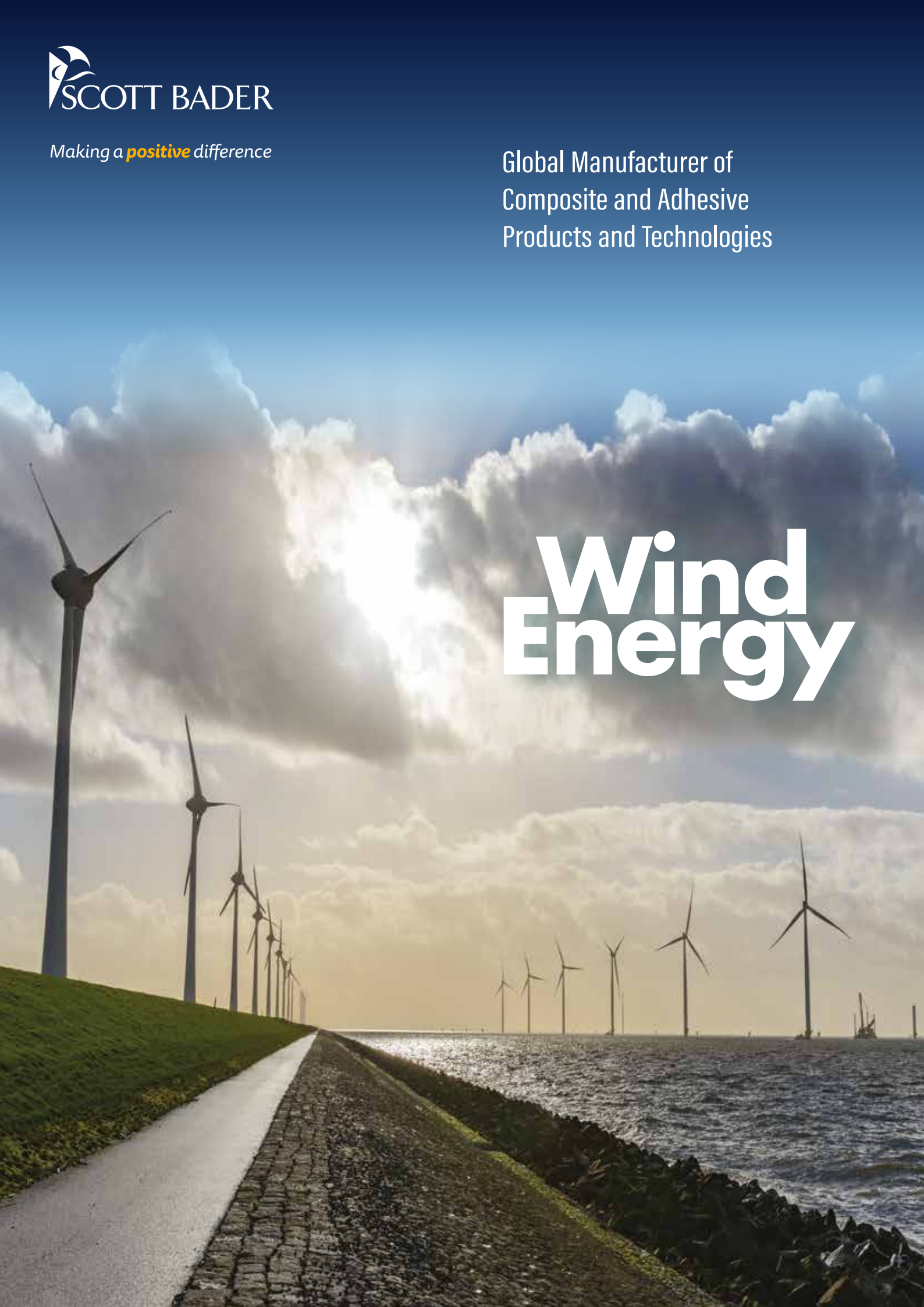




Making a **positive** difference

Global Manufacturer of
Composite and Adhesive
Products and Technologies

Wind Energy



APPLICATION	CATEGORY	PRODUCT	TYPE	VISCOSITY (cPs)/ (Max Gap Fill)	GEL TIME (mins)	FEATURES/BENEFITS	
<p>Tooling</p>	Pattern/Direct Mould Build	Poly-Protect® B12R	Polyester	14,000	15	Poly-Protect is a MEKP catalysed, brushable slightly thixotropic sealer designed to coat expanded and extruded polystyrene foams	
		Poly-Fair® T27	Polyester	(25mm)	20	Poly-Fair® T27 is a sprayable modified polyester compound designed for milling of large plugs	
		Poly-Fair® T28	Polyester	(25mm)	40	Poly-Fair® T28 is an extrudable modified polyester compound designed for milling of small and large plugs or direct limited production moulds	
		Poly-Fair® F26	Polyester	(6mm)	4	Poly-Fair® F26 is a water resistant, low-density polyester-based fairing compound	
		Crystic® Primecoat	Polyester	n/a	8	Crystic® Primecoat is a high build, polyester coating material which allows the rapid surfacing of patterns constructed from wood, MDF, GRP	
		Crystic® Glosscoat	Polyester	n/a	8	Crystic® Glosscoat is a polyester coating designed to be applied over prepared Crystic® Primecoat to give a glossier and more durable surface	
	GRP Mould Build	Crystic® gelcoat 15PA	Vinylester	n/a	10	Crystic® gelcoat 15PA is a pre-accelerated spray gelcoat specially formulated from a vinyl ester base resin and is available in a restricted range of colours	
		Crystic® VE679PA	Vinylester	300	20	Crystic® VE 679PA is a pre-accelerated, thixotropic, DCPD modified, vinyl ester resin	
Crystic® RTR 4010PA		Polyester	500	40	Crystic® RTR 4010PA is a new, improved rapid tooling resin which incorporates better handling properties, lower viscosity, improved shrinkage control and is catalysed with standard MEKP catalyst. RTR 4010PA is a thixotropic, filled, low profile resin for hand-lay mould making applications. Best suited for smaller high volume moulds with room temperature processing		
Crystic® 474PA		Polyester	400	12	Crystic® 474PA is a thixotropic, pre-accelerated orthophthalic polyester resin with good heat and chemical resistant properties. Best suited for larger moulds that will undergo elevated temperature processing cycles		
<p>Wind Turbine Blade Manufacture</p>	Gelcoats	Ecogel® S0 PA	Polyester	300	60	Ecogel® S0 PA is a pigmented, styrene free, pre accelerated isophthalic and thixotropic polyester gelcoat specially designed for spray application	
		Ecogel® S1 PA	Polyester	300	30	Crystic Ecogel® S1PA is a very low styrene emission polyester spray gelcoat.	
		Crystic® gelcoat LS 97PA	ISO Polyester	240	7	Crystic® gelcoat LS 97PA is a high performance isophthalic gelcoat. It is a low styrene content superior weathering gelcoat with excellent water resistance	
		Crystic® gelcoat 0209 SMK	ISO Polyester	350	10	Crystic® gelcoat 0209SMK is a pre-accelerated, robust, isophthalic and thixotropic polyester gelcoat specially designed for spray application	
	Resins	Crystic® 701 PAX	ISO Polyester	160	85	Crystic® 701PAX is a pre-accelerated, isophthalic polyester resin with low viscosity for vacuum injection and controlled exotherm characteristics	
		Crystic® 702 PAX	Ortho Polyester	160	65	Crystic® 702PAX is a pre-accelerated, orthophthalic polyester resin with low viscosity for vacuum injection and controlled exotherm characteristics	
		Crystic® VE676-03	Vinylester	175	30	Crystic® VE 676-03 is an epoxy bisphenol A based, vinyl ester resin for vacuum injection	
		Crystic® 2-420 PA	Polyester	420	65	Crystic® 2-420PA is a low styrene emission, pre-accelerated orthophthalic polyester resin for hand lamination. It has a long gel time and low exotherm, which make it suitable for the moulding of large structures and for multi layering. Crystic® 2-420PA is available pigmented white	
		Crestapol® 1250LV	Urethane Acrylate	200	35	Compatible with carbon fibre reinforcements. Delivers high toughness and exceptional retention of properties when exposed to hot wet and cold environments. Crestapol® 1250LV is a laminating resin for use in injection, RTM and vacuum infusion applications. Crestapol® 1250LV produces laminates with high strength and toughness with exceptional water and hydrolysis resistance	
		Crestapol® 1250LV Pultrusion	Urethane Acrylate	200	n/a	Variant of 1250LV product designed for carbon pultrusions ideal for stiffening of polyester or epoxy infused wind turbine blades. Provides a fast wetout and an outstanding bond to carbon fibre. Crestapol® 1250 delivers high strength and toughness with exceptional water and hydrolysis resistance	
	Crystic® 1251LV	Urethane Acrylate	200	60	Crystapol® 1251LV is a laminating resin for use in injection, RTM and vacuum infusion applications. Crestapol® 1251LV produces laminates with high strength and toughness with exceptional water and hydrolysis resistance		
	Structural Bonding Pastes	Scott Bader offer a range of structural bonding pastes for blade bonding tailored to meet customer requirements.				Please contact andrew.harvey@scottbader.com at Scott Bader, for further information	
	<p>Nacelle/ Wind Turbine Generator Housing Manufacture - Fire Retardant Systems</p>	Topcoats	Crystic® Fireguard 75PA	Polyester	n/a	10	Crystic® Fireguard 75PA (IMB) Excel is an intumescent in mould brush (IMB) gelcoat based on an unsaturated polyester resin. It is available as a brush & spray applied product in a variety of colours
Resins		Crystic® 1355PA	Polyester	450	18	Crystic® 1355PA is a pre-accelerated, filled, fire retardant polyester resin which has been designed for contact moulding applications. It has been formulated as an inexpensive resin and wets out the reinforcement rapidly	
		Crystic® PD9356 PA	Polyester	n/a	18	Variant of 1355PA with no thixotrope and viscosity adjusted for RTM and RTM-Light	
Crystapol® 1212	Urethane Acrylate	70	17	Resin for Nacelle manufacture. Crestapol® 1212 is a tough, low viscosity resin with a rapid cure, which can be highly filled with selected grades of alumina trihydrate (ATH). Highly filling this resin with ATH allows a very high level of fire & smoke performance (Epiradiateur NFF 16-101, NFP 92-501, M1, F0). It is designed for closed mould applications, including vacuum infusion with suitable reinforcements and pultrusion processes. (Separate Crestapol® Pultrusion and Closed Mould guides are available)			
<p>Blade Finishing & Repair</p>	Resins	Crystic® VE676 1TP	Vinylester	800	30	Crystic® VE 676/1TP is pre-accelerated, thixotropic epoxy bisphenol A based, vinyl ester resin ideal for hand lamination	
	Filler	Filler X401	Polyester	800	9	Crystic® FILLER X 401 is a pre accelerated highly thixotropic polyester compound, specially designed for surface finish at joint line	
		Filler X401FV	Polyester	n/a	n/a	Glass filled variant of the X401 filler	
	Gelcoat	Crystic® gelcoat 0209 KH V02	ISO Polyester	530	12	Gelcoat Crystic® 0209 KH V02 is a pre-accelerated isophthalic and thixotropic polyester gelcoat specially designed for brush application	
		Crystic® gelcoat X209 FC	ISO Polyester	n/a	n/a	Fast cure variant of brush applied Crystic® gelcoat 0209 KH V02	
	Structural Adhesives	Crestabond® M1-04	Methacrylate	(15mm)	4	Crestabond® M1-04 is a toughened, two component acrylic adhesive designed for bonding composites, thermoplastics and metals	
		Crestabond® M1-20	Methacrylate	(25mm)	19	Crestabond® M1-20 is a toughened, two component acrylic adhesive designed for bonding composites, thermoplastics and metals	
		Crestabond® M1-60HV	Methacrylate	(50mm)	60	Crestabond® M1-60HV is a toughened, two component acrylic adhesive designed for bonding composites, thermoplastics and metals. Gap filling up to 50mm	
Crestabond® M1-90HV		Methacrylate	(50mm)	90	Crestabond® M1-90HV is a toughened, two component acrylic adhesive designed for bonding composites, thermoplastics and metals. Gap filling up to 50mm		
Crestabond® M7-05	Methacrylate	(5mm)	5	Crestabond® M7-05 is a toughened, two component acrylic adhesive designed for bonding composites, thermoplastics and metals. Gap Filling up to 5mm			
Crestabond® M7-15	Methacrylate	(5mm)	15	Crestabond® M7-15 is a toughened, two component acrylic adhesive designed for bonding composites, thermoplastics and metals. Gap Filling up to 5mm			

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*We pioneer the future of chemistry, making a **positive** difference to all businesses we serve and each life we touch.*

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