

**Product Information**

Coatings for Composite Components

# Coatings for Composite Components

Highest resistance to UV and erosion thanks to decades of experience

**With about 25 years of experience in coatings for GFRP rotor blades for the wind energy industry, Bergolin offers a selection of highly weather-resistant gelcoats and topcoats for applications such as the styrene-free coating of high-quality composite components.**

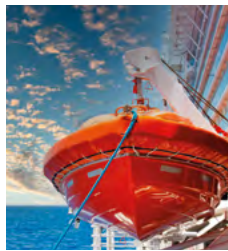
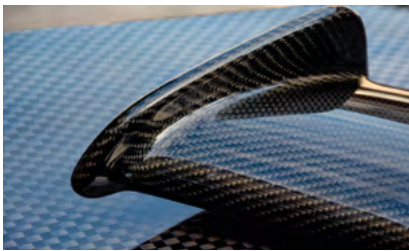
These products are optionally able to achieve surface qualities with very high gloss levels that are comparable to a lacquer finish.

Some of the gelcoats can also be used as topcoats and make matt or non-slip surfaces possible. Bergolin's gelcoats and top-

coats are characterised by very good polishability, high gloss stability, great flexibility in the choice of colour and the highest resistance to UV light and erosion. The necessary layer thickness for Bergolin gelcoats is 300-400 µm, making it significantly lower than that of a UP gelcoat.

GFRP and CFRP components produced with Bergolin gelcoats are highly resistant to weather, water, chemicals, heat and cold. Available water-based 1-component topcoats can significantly increase the weather resistance of composite parts even further.

## Bergolin Coatings - For a Wide Range of Composite Components:



### Mobility

- **Automotive**  
including racing, cars, commercial vehicles, caravans, agriculture
- **Rail Systems**  
including side panels, sills, front sections
- **Marine Systems**  
including yacht manufacturing, lifeboats, interior design, buoys



### Energy

- Wind energy, electrical components and housings, battery housings, etc.



## Fast, highly resistant repair solutions for GFRP and CFRP components

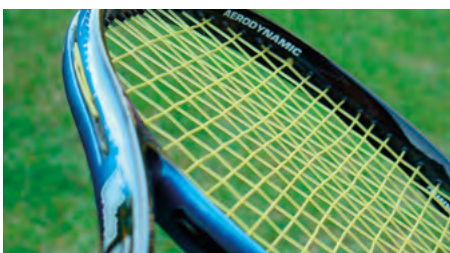
Using our patent-pending UV-curing resins, repairs on composite materials can be carried out quickly, easily and without errors.

Repaired surfaces can be processed further immediately after curing, which is indicated by a marker contained in the resin. The curing process itself only takes a few minutes.



## Construction and Architecture

- **Tank, Pipe and Container Construction**  
including slurry tanks and water tanks, bulk material containers, pipes in seawater desalination plants and refineries
- **Protective Structures, Telescope Domes, Housings**  
e.g. for telecommunications, IT or electronic components (charging stations, switch boxes, etc.)
- **Sanitary and Kitchen**  
e.g. bathtubs, shower trays, washbasins, washstands with integrated basins



## Sports and Leisure

- e.g. hockey sticks, golf clubs, rackets for tennis, badminton and squash, water slides, pools, rollercoaster cars

# Product Overview

## Coatings for Composite Components

Article	Bergolin Gelcoat 2D3800	Bergolin Gelcoat 2D3810	Bergolin Gelcoat 2D3820
Type	2-Component Polyurethane Gelcoat / Topcoat		
Colour	transparent		
Gloss	high gloss or matt	glossy	matt
Application Methods	Spraying (airless, airmix)		
Suitable for (Matrix)	Epoxy-, Polyester-, Vinylester-Resins		

Features & Benefits			
	unique depth effect	touchable effect for surfaces that require non-slip properties	with soft-feel effect e.g. for car interiors or sports equipment
	high UV stability		
	high bonding strength without adhesive agent		
	very good grind- & polishability		

Areas of Application			
<b>CFRP Visible Carbon Fibre Components</b> including for bodywork, spoilers, door sills, interior etc.	■	■	■
<b>Sport &amp; Leisure</b> including for golf clubs, tennis rackets, hockey sticks		■	



Article	Bergolin Gelcoat 6D3800	Bergolin Gelcoat 6D3800-P	BergoLED 1L1000	BergoLED 4L1000
Type	2-Component Gelcoat / Topcoat		LED-UV-curing resin	LED-UV-curing putty
Colour	all colours possible		transparent	
Gloss	glossy			
Application Methods	2K-spraying, rolling	2K-spraying, rolling	infusion, rolling	filling
Suitable for (Matrix)	Epoxy Resins	Polyester- & Vinylester-Resins		Epoxy-, Polyester-, Vinylester-Resins

Features & Benefits		
	free of solvents & styrene	free of solvents, isocyanates & styrene
	highest erosion resistance	
	high gloss level	1C-Systems
	fast drying & further processing	extremely fast drying by LED-UV-lamps, immediate further processing
	very good grind- & polishability	very good grindability
		UV-marker as a curing indicator
	high UV stability	

Areas of Application				
<b>GFRP Parts for Boat Building</b> yachts, lifeboats, benches, buoys, etc.	■	■	■	■
<b>Tanks</b> for drinking water or process water, slurry tanks and other tanks	■	■		
<b>Telescope Domes</b> and other housings	■	■	■	■
<b>Nacelles &amp; Rotorblades</b> for wind turbines	■	■	■	■





## The Company

**Bergolin GmbH & Co. KG** was established in 1909 and is a globally active corporation headquartered in Germany. The company specialises in developing and manufacturing high-quality coating systems and has a wide range of products for many different applications in the fields of wind power, industry and corrosion protection.

Customers particularly appreciate the cooperative working relationship with us. Solutions that are precisely tailored to individual requirements and processes are developed together, and this has significant practical advantages for the customer. Developing solutions together in this manner often results in optimised processes and a longer product life.

Bergolin also has subsidiaries in the US, in Poland, India and in China as well as a worldwide network of cooperation partners through which it offers close geographical proximity to our customers.

## Our Strengths

### Research and Development

More than 30% of our employees work in the areas of R&D and application technology. This ensures that our products are always technologically up-to-date. Our products consistently fulfil and even exceed the expectations of our customers in terms of innovation and cost-effectiveness.

### State-of-the-Art Production Facilities and Inhouse Application Technology Center

Our modern production facilities also include a large application technology centre where we are able to carry out most of the necessary tests ourselves. In addition, we operate large research and testing laboratories where we continually develop our products further and ensure consistent quality.



Future-proof with state-of-the-art manufacturing and innovative R&D.



Focusing on the customer is part of our culture.

### Individual Solutions for Problems

If necessary, we adapt our systems to the specific requirements of our customers. When new, customised solutions are required, our development team is ready to implement them.

### Quality Management

We continually work to improve our products and processes so that we can provide our customers with the best possible combination of functionality and cost-effectiveness at all times. For this reason, it is very important to us to have our certifications reviewed on a regular basis, including DIN EN ISO 9001:2015.

### Training for our Customers' Staff

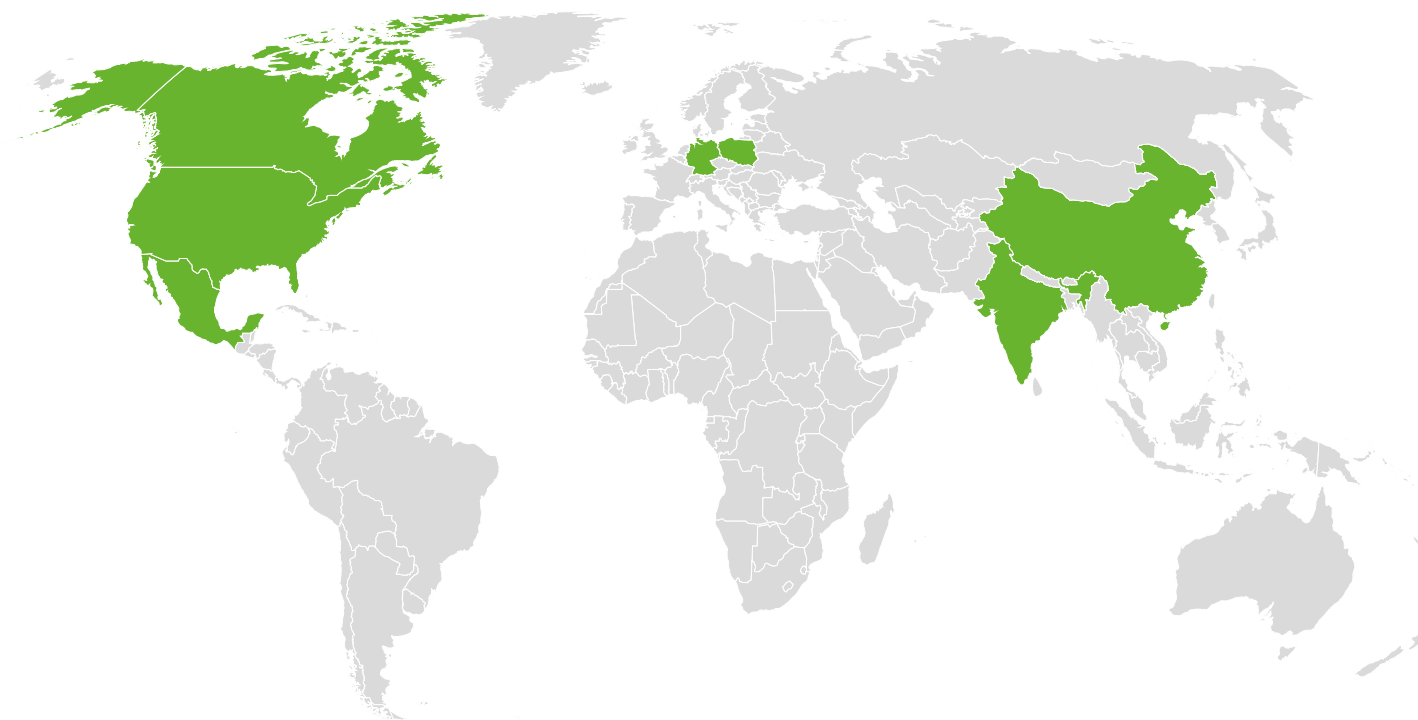
In order to ensure that your employees achieve optimal results and high levels of efficiency using our systems, we offer comprehensive training at our application technology centre under the guidance of Bergolin coating system specialists.

### Technical Customer Service

Our highly qualified application technicians have many years of experience with a wide range of products and systems. Whether you need to plan and implement new systems or solve application problems, our technicians are always happy to provide competent support.

This includes comprehensive customer service at your location if necessary. We are in constant contact with users as well as with equipment manufacturers in order to continuously improve our expertise. This enables us to reliably assist our customers in optimising their processes.

## BERGOLINWORLDWIDE



■ Subsidiaries: Germany (headquarters), USA, Poland, India, China



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