

Tectyl for Wind Energy

Protecting Value Through Expertise

Corrosion Protection Solutions for Wind Turbine Manufacturing, Transport, Operation and Asset Lifecycle Extension

The wind energy corrosion challenge

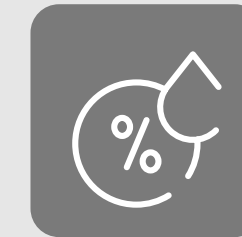
The Wind Energy Corrosion Challenge

Wind turbines operate in demanding environments where corrosion protection is critical to long-term performance.

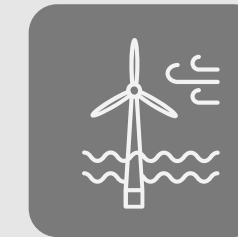
Environmental Exposure



Rain



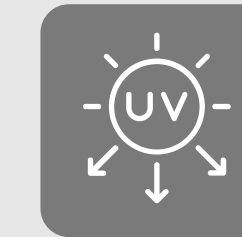
Humidity



Salt-laden
air

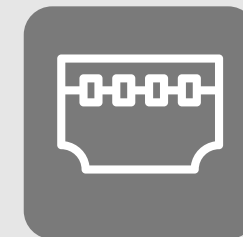


Temperature
changes



UV
exposure

Structural Challenges



Weld
seams



Bolted
connections



Flanges

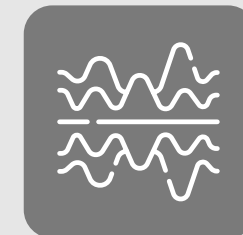


Internal
cavities

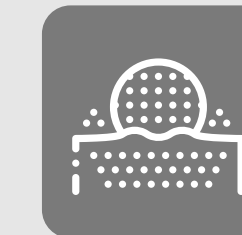


Hard-to-access
areas

Mechanical Exposure



Vibration



Abrasion

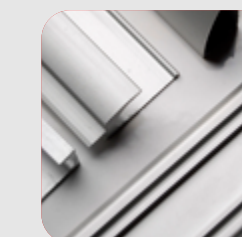


Moving
components

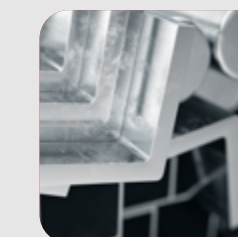
Complex Materials



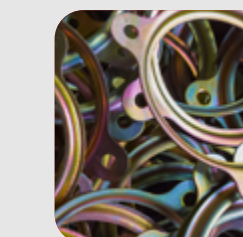
Carbon
steel



Aluminium



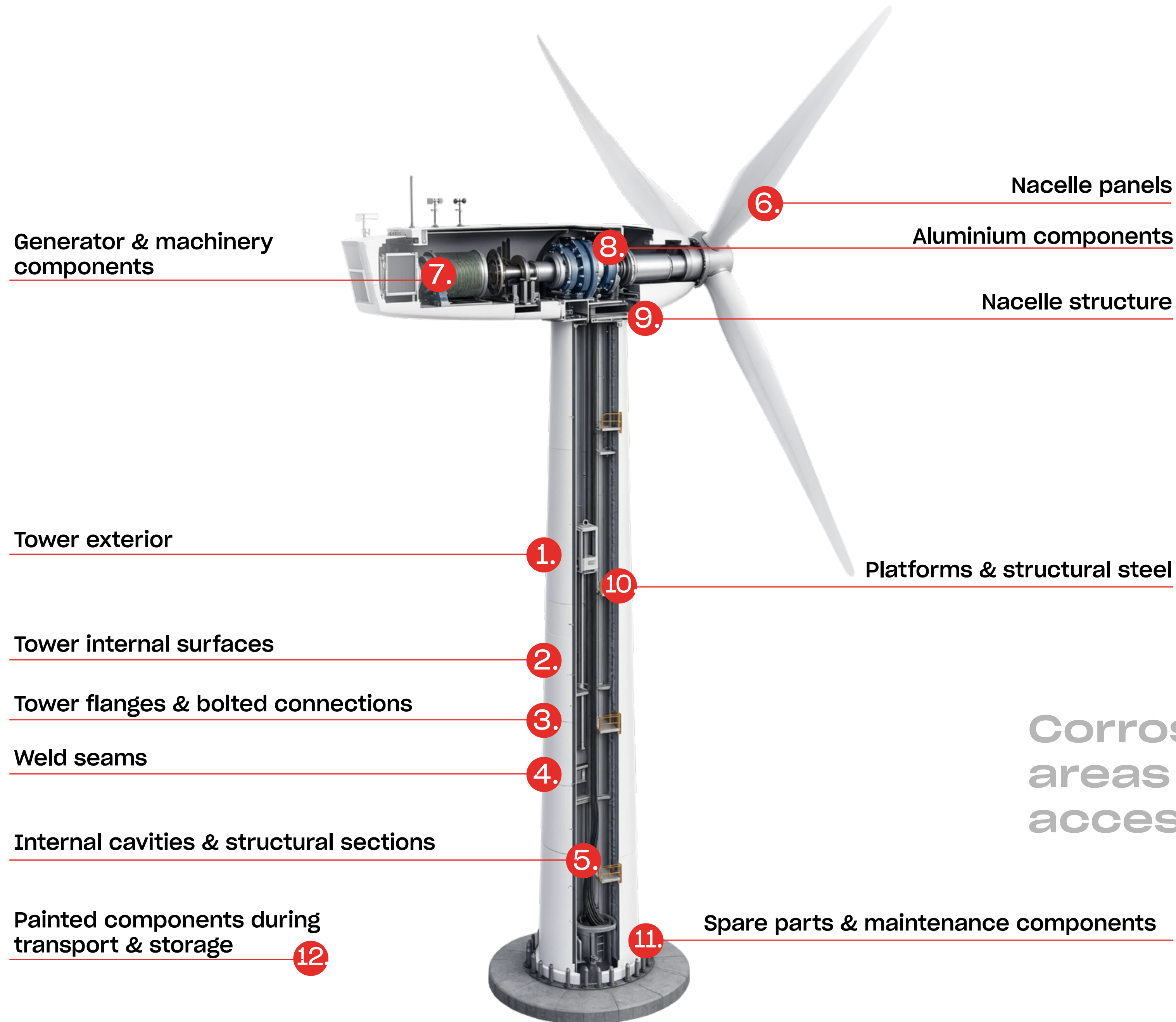
Galvanized
steel



Mixed-metal
assemblies

Long Service Life

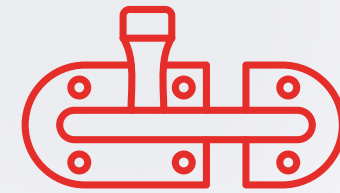
Wind energy assets require reliable protection throughout decades of operation.



Corrosion often develops in areas that are difficult to access, inspect and maintain.

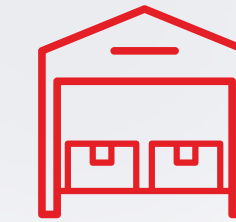
Manufacturing

Protect metal components and vulnerable areas during production.



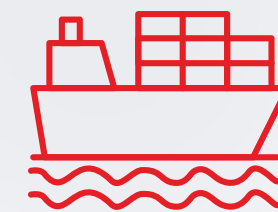
Storage

Prevent corrosion of components before installation.



Transport

Protect painted and metal surfaces during logistics and shipment.



Assembly & Installation

Protect structural interfaces, cavities and hard-to-access areas.



Maintenance

Protect replacement parts and exposed components during service.



Protect



Heavy-Duty External Protection



Tectyl 127 CGW

Applications

- ▶ Wind tower sections
- ▶ Offshore support structures
- ▶ Steel platforms
- ▶ External steel fabrications

Benefit

Long-term corrosion protection for exposed steel structures in harsh weather and marine environments.

Key feature:

UV-resistant, aluminium-pigmented protection.



Internal Cavity Protection



Tectyl 4D750

Applications

- ▶ Tower interiors
- ▶ Internal mast sections
- ▶ Frame tubes
- ▶ Enclosed structural cavities

Benefit

Long-term internal corrosion protection with excellent penetration into difficult-to-access areas.

Technology

Non-solvent • Ultra-low VOC



**Painted Surface /
Transport Protection**



Tectyl 1079

Applications

- ▶ Painted tower sections
- ▶ Nacelle housings
- ▶ Painted metal components

Benefit

Temporary protection of painted surfaces during covered storage and transport.



**General Metal /
Multipurpose Protection**



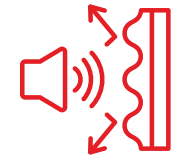
Tectyl 506

Applications

- ▶ Machinery components
- ▶ Spare parts
- ▶ Maintenance components
- ▶ Exposed metal surfaces

Benefit

Versatile corrosion protection during manufacturing, maintenance, storage and shipment.



Sound damping



Tectyl 5638 W

Applications

- ▶ Nacelle panels
- ▶ Machinery covers
- ▶ Generator housings

Benefit

Reduces vibration and structure-borne noise in metal panels and housings.

Technology

Water-based · Solvent-free



Transparent Metal Protection



Tectyl 3217 E

Applications

- ▶ Aluminium parts
- ▶ Generator components
- ▶ Machined parts
- ▶ Exposed metal surfaces

Benefit

Transparent corrosion protection where surface visibility and chemical resistance are important.

Technology

Water-based · Low VOC



General Corrosion Protection



Tectyl 5506W-I

Applications

- ▶ Fabricated steel components
- ▶ Spare parts
- ▶ Tooling
- ▶ Exposed metal components

Benefit

Long-term protection during storage, transport and outdoor exposure.

Technology

Water-based · Low VOC



Transparent Protective Coating



Tectyl 300G Clear E

Applications

- ▶ Wind turbine tower sections
- ▶ Structural steel components
- ▶ Fabricated metal parts

Benefit

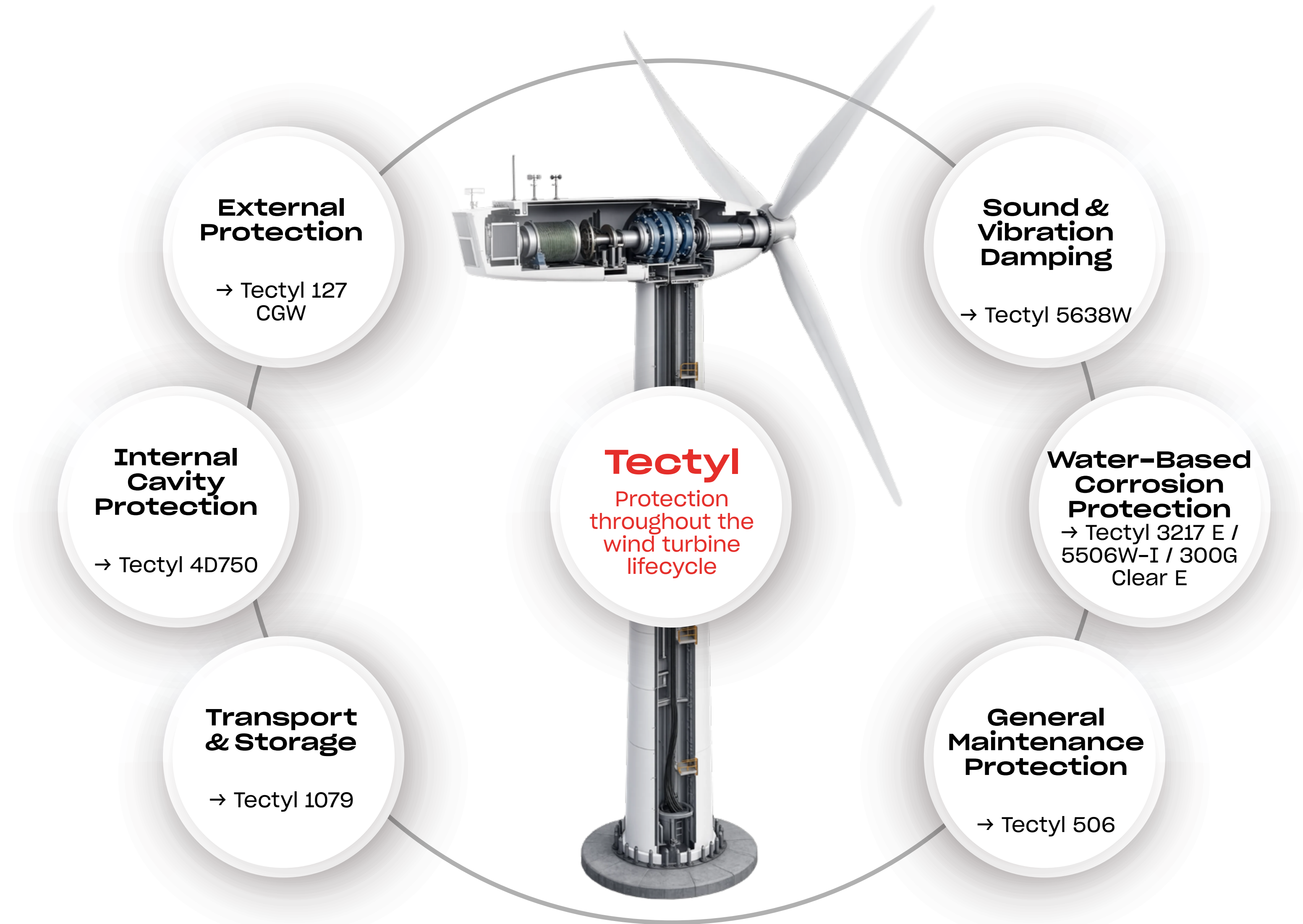
Durable transparent corrosion protection for components exposed during manufacturing and service.

Technology

Water-based

Additional feature

Can be overpainted when required.



Product	Solution	Key Wind Application	Primary Benefit	Technology
Tectyl 127 CGW	Heavy-duty protection	Tower & offshore steel structures	Long-term external protection	Solvent-based
Tectyl 4D750	Cavity protection	Tower interiors & cavities	Long-term internal protection	Non-solvent · Ultra-low VOC
Tectyl 1079	Transport protection	Painted components	Storage & transport protection	Solvent-based
Tectyl 5638W	Sound damping	Nacelle & machinery panels	Noise & vibration reduction	Water-based · Solvent-free
Tectyl 3217 E	Transparent protection	Aluminium & generator parts	Visible-surface protection	Water-based · Low VOC
Tectyl 5506W-I	General protection	Steel components & spare parts	Long-term corrosion protection	Water-based · Low VOC
Tectyl 300G Clear E	Transparent coating	Tower & fabricated parts	Durable transparent protection	Water-based
Tectyl 506	Multipurpose protection	General metal components	Versatile corrosion protection	Solvent-based

Why wind energy professionals choose Tectyl

Protecting wind energy assets from manufacturing and transport to operation and maintenance.

Expertise

Decades of corrosion protection experience.

Application Knowledge

Solutions for demanding industrial and environmental conditions.

Lifecycle Protection

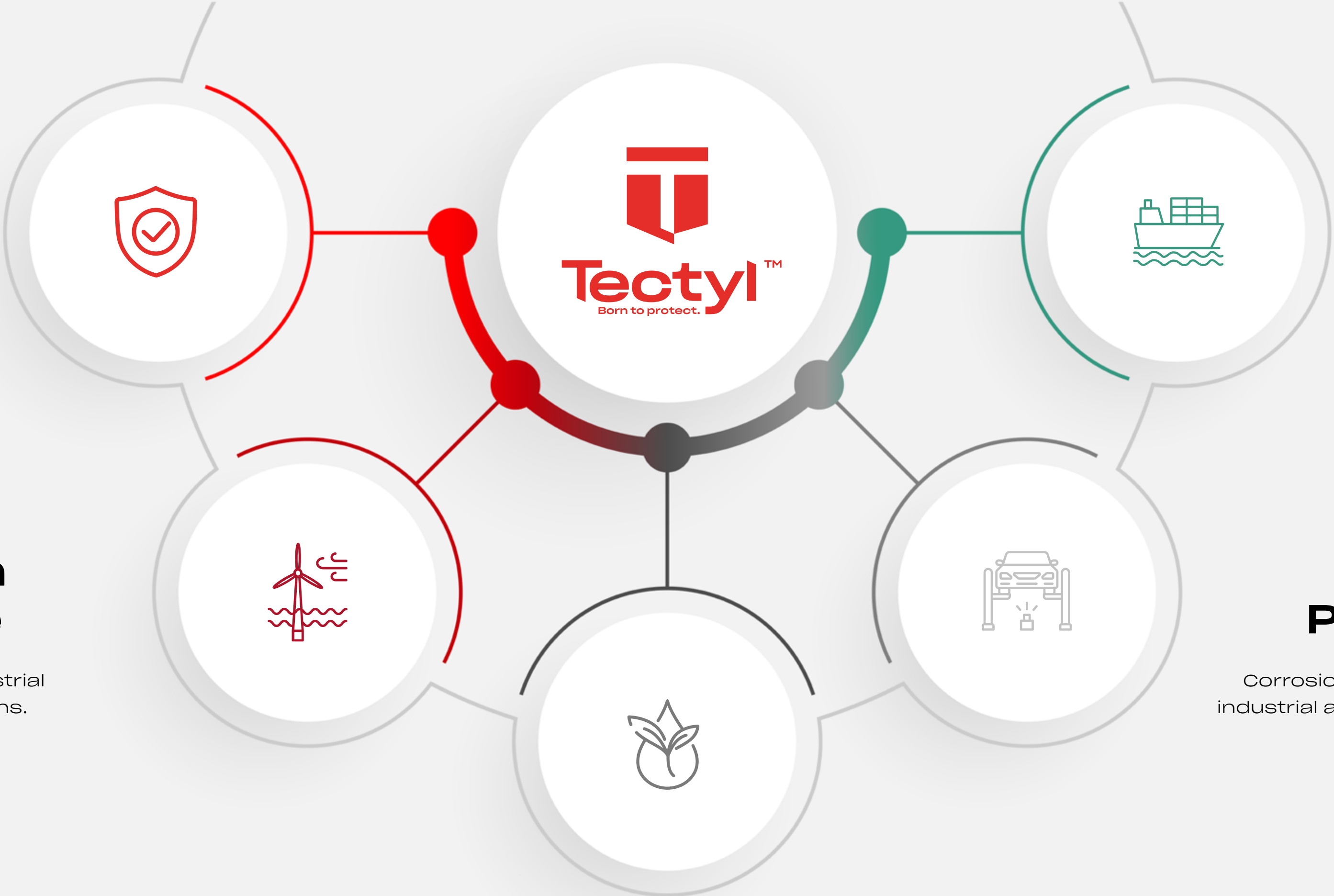
Protection from manufacturing and transport to operation and maintenance.

Proven Performance

Corrosion protection solutions used across industrial and transportation sectors worldwide.

Protection Technologies

Water-based, non-solvent and solvent-based solutions for different application requirements.





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Born to protect. Built to be smart.