



AYPOLS
The Trusted Chemistry

WIND RESINS & GELCOATS

High Performance Resins &
Gelcoats for Wind Applications

AYPOLS brings
The **Trusted Chemistry**,
The **Trusted Products**,
The **Trusted Performance**,
Trusted Services and a
Trusted Partner through its
Innovation, Quality Assurance,
Research & Developments to
absolute Customer Service with
practical Technical Support.



 www.aypolpolymers.com

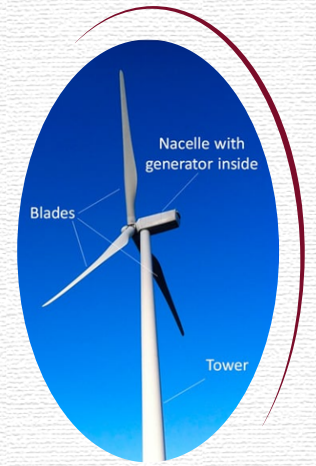
AYPOLS
Unsaturated Polyester Resins

VESPOL
Vinyl Ester Resins

NEXGEL
Premium Gelcoats

NEXCOAT
Premium Coating Resins

NEXTINT
Premium Pigments



High Performance AYPOLS Resins & Gelcoats for Wind Applications:

- > Polyester Resin & Gelcoats: FRP composites made with unsaturated polyester resin and gelcoats are crucial due to their combination of high strength, lightweight properties, and durability in the following applications.
- > Wind Turbine Blades: Structural Integrity, Lightweight Construction, Aerodynamic Efficiency, Weather Resistance
- > Nacelles: Protective Enclosures, Durability, Lightweight and Strong, Spars and Shear Webs: Internal Support Structures, High Strength-to-Weight Ratio.
- > Wind Turbine Towers: Segmented Tower Sections, Corrosion Resistance
- > Wind Turbine Covers and Fairings: Streamlined Designs, Protective Layer.
- > Wind Turbine Platforms and Walkways: Maintenance Access, Non-Corrosive.

AYPOLS Wind Applications Product Line:

AYPOLS RESIN & GELCOATS	PRODUCT	KEY POINTS
AYPOLS OT 7415 INF PA	Ortho, Pre-accelerated Infusion resin, Designed for the applications of VIP and SCRIMP LRTM process for Wind, Automotive and Marine applications	High HDT, Excellent Mechanical properties, Excellent fiber wet ability, Low viscosity, and Low peak exotherm
AYPOLS OT 7671 INF PA	Ortho, Pre-accelerated Infusion resin, Designed for the applications of VIP and SCRIMP LRTM process for Wind, Automotive and Marine applications	High HDT with Excellent Mechanical properties, Excellent fiber wet ability, Low viscosity, and Low peak exotherm
AYPOLS OT 1301 INF PA GT75	Ortho, Pre-accelerated, Low viscosity Infusion resin, Designed for Vacuum infusion for Wind & Automotive applications	High HDT, High Mechanical strength, Excellent fiber wet ability, Low viscosity, and Low peak exotherm
AYPOLS OT 1401 INF PA GT100	Ortho, Pre-accelerated with GT 100 Min Infusion resin, Designed for the applications of VIP and SCRIMP LRTM process for Wind, Automotive and Marine applications	High HDT with Excellent Mechanical properties, Excellent fiber wet ability, Low viscosity, and Low peak exotherm
AYPOLS IS 2106 INF NA GT100	ISO, Pre-accelerated Infusion resin, Designed for the applications of VIP and SCRIMP LRTM process for Wind, Automotive and Marine applications	Excellent toughness and very good corrosive resistant, High heat resistance
NEXGEL IS NTRL UV PA H	ISO, Pre-accelerated, High thixotropic, UV stabilized, Gelcoat, for Hand layup for Wind, Automotive and Marine applications.	High HDT, UV and weather resistance, High durability, High gloss surface finish.
NEXGEL IS RAL XXXX UV PA H	ISO, Pre-accelerated, High thixotropic, UV stabilized, RAL XXXX Pigmented Gelcoat, for Hand layup for Wind, Automotive and Marine applications.	High HDT, good Weather resistance and high mechanical strength, available in all pigment Shades.
NEXGEL NP NTRL UV PA H	ISO NPG, Pre-accelerated, High thixotropic, UV stabilized, Gelcoat, for Hand layup for Wind, Automotive and Marine applications.	Excellent UV and weather resistance, High durability, High gloss surface finish.
NEXGEL NP RAL XXXX UV PA H	ISO NPG, Pre-accelerated, High thixotropic, UV stabilized, RAL XXXX Gelcoat, for Hand layup for Wind, Automotive and Marine applications.	Excellent UV and weather resistance, High durability, High gloss surface finish, available in all pigment Shades.

Key Benefits with Aypols Wind Resins & Gelcoats:

- > Cost-Effectiveness: Aypols Unsaturated polyester resins are more affordable compared to other resins like epoxy, making it a cost-effective choice for large-scale wind turbine production.
- > Ease of Manufacturing: The Aypols resin's versatility and compatibility with various molding techniques (hand lay-up, vacuum infusion, RTM) make it suitable for manufacturing complex shapes and large components.
- > Mechanical Properties: The high strength-to-weight ratio and excellent fatigue resistance of FRP composites ensure reliable performance under the cyclic loads experienced by wind turbines.
- > Environmental Resistance: Gelcoats provide an extra layer of protection against UV radiation, moisture, and other environmental factors, ensuring the longevity of wind turbine components.
- > Aesthetic and Functional Finish: Nexgel Gelcoats offer a smooth, glossy finish that not only improves the aerodynamic efficiency of the blades but also enhances the overall appearance of the turbine.
- > Consistent Performance batch to batch, manufactured using Statistical Process and Quality Controls at our own ISO 9001-2015 certified manufacturing facility

★ The Trusted Chemistry ★ The Trusted Products ★ The Trusted Performance ★ The Trusted Services ★ The Trusted Partner

For more information, related to the above product line, please call/ Email/ Send Enquiry

Aypols Polymers Private Limited

211/212, Ravindranath Layout, Venkatasamy Road, New Sidhapudur, Coimbatore-641044, Tamilnadu, India

+91 422 4387801

info@aypolspolymers.com

www.aypolspolymers.com

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