



# WIND APPLICATIONS

## INTERIOR/EXTERIOR BONDING

SCIGRIP adhesives provide strength and flexibility for a wide range of assembly applications, utilizing multiple working times and delivering a clean finished look.

Please visit [www.scigripadhesives.com](http://www.scigripadhesives.com) for more information

SG230HV

SG300

SG350L

SG400LSE

### Drill and Fill Repairs:

Drill-and-fill to fix internal defects in composite materials.

#### Repair using SG350L:

Repair internal debonding, delamination and adhesive voids with SG350L. It does not boil at large bonding gaps up to 150mm.

### Yaw Mechanism:

Designed with composite materials for strength, light weight and durability to rotate the turbine towards the wind.

#### Bond using SG300/SG350L:

Requires fast strong bonding of dissimilar materials with weather-proof sealing and corrosion resistance.

### Rotor Blades:

Constructed from composites for high strength and rigidity with minimal weight; built to ensure impact, vibration and harsh environmental conditions.

#### Bond using SG230HV/SG300/SG350L:

Requires fast, no sag, strong bonding of dissimilar materials, while subject to variable weather conditions and constant vibration.



### Rotor Hub:

Composite shell enclosing cast-iron heavy-duty, componentry connecting the nacelle to the rotor blades. Requires strength to support heavy blades and vibration resistance from continuous motion.

#### Bond using SG230HV/SG300/SG350L:

Requires strong, fast bonding and sealing of dissimilar materials while withstanding variable weather conditions and constant movement.



Approved for SG230HV & SG300

### Vortex Generators:

Thermoplastic devices designed to improve aerodynamic performance by manipulating airflow patterns.

#### Bond and Retrofit using SG300/SG350L/SG400LSE:

Requires fast, no sag, strong bonding in harsh environmental conditions, subject to constant impact and vibration.



### Nacelle:

The housing on the top of the tower containing the key turbine componentry made of composites for strength, durability and aerodynamic design to sustain extreme weather conditions.

#### Bond using SG230HV/SG300/SG350L:

Strong, fast bonding of dissimilar materials, while providing impact and vibration resistance without altering the profile or function of the mechanism.



### Field Repairs:

Repairs of trailing edge splits, lightning strike damage or shipping damage.

#### Repair and retrofit using SG350L:

No boiling at large bonding gaps up to 150mm, No surface preparation required, fast injection and rapid curing so is well suited for repair or backfill.



### Tower:

Built from steel or concrete to support the nacelle and blade weight, needs to withstand harsh environments and remain stable during continuous turbine motion.

#### Bond using SG300/SG350L:

Requires fast, no sag, strong bonding and sealing in harsh environmental conditions, subject to constant impact and vibration.



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