

SIKA IS COMMITTED TO THE GROWTH OF RENEWABLE ENERGY

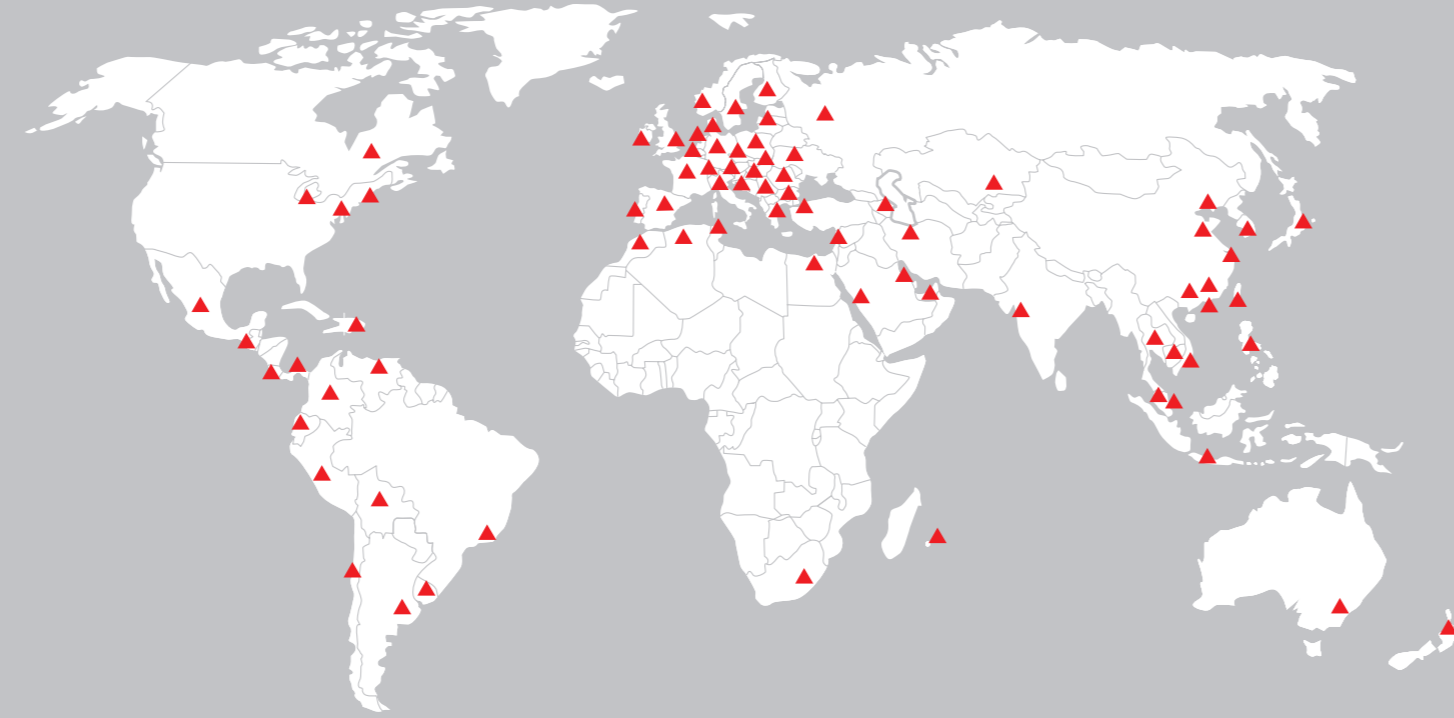
Renewable energy is expanding globally by the increasing demand for alternative, green energy to reduce the use of fossil fuels and the footprint of global warming. Sika is committed worldwide to supporting the growth of renewable energy sources with solutions that allow for rapid realization of more reliable and cost efficient manufacturing processes. We are proud of our heritage in supplying the renewable energy industries with relevant, reliable products and solutions. We know what it means to deliver products and solutions that perform for decades under harsh conditions. In the wind energy sector, we develop bonding, sealing, damping and reinforcing solutions in close cooperation with our customers.

To Sika, this means not only developing best-in-class technology solutions to match our customer's technical and commercial requirements, but also ensuring appropriate performance throughout the design, prototyping, validation, and full production phases.

For the customer, this means access to Specialists in Sika's Research & Development, Technical Service, Systems Engineering, and Application Technology teams to concentrate on devising appropriate client-oriented solutions.



GLOBAL BUT LOCAL PARTNERSHIP



FOR MORE INFORMATION:



www.sikausa.com/wind

WHO WE ARE

Sika® is a globally active company supplying the specialty chemicals markets. It is a leader in processing materials used in sealing, bonding, damping, reinforcing and protecting load-bearing structures in construction (buildings and infrastructure construction) and in industry (vehicle, building components, equipment production, solar and wind power).

Sika's® product lines feature high-quality concrete admixtures, specialty mortars, sealants and adhesives, damping and reinforcing materials, structural strengthening systems, industrial flooring and membranes. Subsidiaries in more than 84 countries worldwide and approximately 16,000 employees link customers directly to Sika®.



Proud Member and Manufacturer of Verified Components.

Sika Industry

30800 Stephenson Highway
Madison Heights, MI 48071
Tel: 248.577.0020

Sika Canada

601 - Delmar Avenue
Pointe Claire, Quebec, H9R 4A9
514.697.2610

Customer Service

800.688.7452

Sika North America Plant Locations

Lyndhurst, New Jersey
Lakewood, New Jersey
Marion, Ohio
Grandview, Missouri
Montreal, Quebec



WIND TURBINE TECHNOLOGY REPAIR SOLUTIONS

WHEN WIND TURBINES NEED TO BE REPAIRED, THE WORLD'S LEADING WIND TURBINE PRODUCERS RELY ON SIKA PRODUCTS AND SOLUTIONS.

Wind turbines must meet performance demands in some of the harshest working environments throughout the world to deliver required output over long periods of time. Mother Nature can pack a mean punch with high winds, lightning, hail, and even birds damaging wind blades and turbines, immediately reducing their performance capacity efficiencies. Wind blades and turbine units must be quickly repaired to get them back into service, which is why the world's leading wind turbine producers and wind turbine service companies rely on Sika's experience in the wind energy industry. High performing Sika products and solutions meet the tough performance specifications to repair units with minimal down time and get them back into service. Built from our extensive knowledge of the wind energy industry, Sika offers a full range of repair products and solutions, from the tip of the blades to the base of the unit, all capable of withstanding the tough climatic conditions found on land and sea.

- Over 20 years global experience in the Wind Power Industry
- Full range of product solutions; from the tip of the blade to the base foundation
- Full system approach for Wind Turbine OEM and in-field installation and repairs
- Nationwide 24 hour product delivery; on demand through strategic partnerships
- Dedicated Wind Energy Key Account Sales and Global Technical Team



BUILDING TRUST



BUILDING TRUST



REPAIR SOLUTIONS FOR WIND TURBINE BLADES AND NACELLES

Blade manufacturers rely on Sika to deliver products and solutions critical to the repairing of wind turbine blades. For many years, our repair solutions have ensured that each blade maintains its service reliability, even when repaired in some of the harshest environments.

SURFACE STRUCTURAL FINISHING AND REPAIR

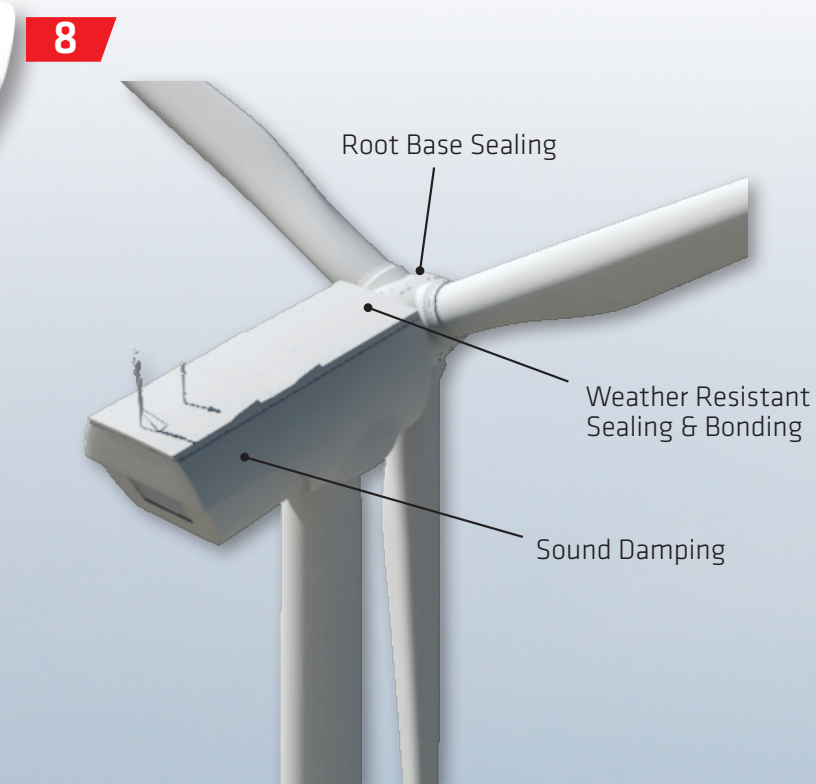
SikaForce® products provide a range of solutions for finishing and repairing blades that have the unique ability to flow and fill gaps without leaving air bubbles in regions where high humidity conditions prevail. Sikadur® Blade Repair Kits are epoxy resin systems designed for repairing laminated structural damage of rotor blades. Unlike standard repair laminating resins, Sikadur® Blade Repair epoxy resins reach T_g faster and can be applied in vertical applications. Smart packaging solutions allow easy in-factory as well as on-site repairs to damaged areas on the blade surface.

REPAIR SOLUTIONS FOR NACELLES

Protecting the turbine's heart from extreme climatic conditions is key to ensure turbine longevity. Sika offers solutions for sealing, bonding and noise abating acoustics solutions to repair and protect the nacelles from the elements.

WEATHER RESISTANT SEALING & BONDING

Sikaflex® and Sikasil® sealants with proven and durable adhesion and elasticity, provide weathering stability and long lasting protection against damages caused by water leakage and general environmental causes.



SOUND DAMPING

Elements like noise insulation and anti-vibration material can be durably and rapidly installed with different acoustic technology based on your requirement.

TECHNICAL CENTERS

Sika employs over 1,200 people in its 11 Technology Centers around the world to focus on the research and development of new materials. This allows Sika to actively promote innovative technology developments within the wind energy market, adding value to the activities of our customers.

TECHNICAL SERVICE

Sika Technical Service teams are located around the world and are dedicated to provide top quality support in the selection, validation, and application of Sika products. By being located close to our customers, Sika Technical Service teams provide optimum local language, communication, and assistance throughout the development process to ensure best possible results.



SURFACE FINISHING AND REPAIR

Products	Type	300 g MixPax	1Kg/45Kg Mix Can	1Kg Can	20 Kg Pail	50 ml Cartridge	190 ml Cartridge	490 ml Cartridge	300 ml Cartridge	10.3 ml Cartridge	295 ml Cartridge	400 ml Unipacs	600 ml Unipacs
SikaForce®-7800 Blue & Red	2C PUR surface filler												
SikaForce®-7812 L7 MR	2C PUR surface filler												
SikaForce®-7010	2C PUR hardener												
SikaForce®-7818 L7	2C PUR adhesive												
SikaForce®-7050	2C PUR hardener												
Sikadur®-Blade Repair Kit - 30	2C Epoxy laminating resin 2C Epoxy laminating hardener												
Sikadur®-Blade Repair Kit - 90	2C Epoxy laminating resin 2C Epoxy laminating hardener												
SikaFast®-3121	2C MMA fast setting very high strength structural adhesive												
Sikaflex®-221	Universal PUR sealant / adhesive												
Sikaflex®-252	All purpose high strength PUR adhesive												
Sikaflex®-521 UV	UV resistant PUR-Hybrid sealant												
Sikasil®-N-Plus	General purpose neutral cure silicone sealant												
Sikasil®-SG-10	Fast curing neutral cure assembly silicone sealant												
Sikasil®-GP HT	High temperature acetoxysilicone sealant												
Sika® Firesil N	Fire retardant fast curing silicone sealant												

Note: Product colors and packaging offering may change. Please consult your Sika representative for colors and packaging configurations.

SIKA® MIXPAX SOLUTION

SikaForce®-7812 L7 MR and Sikadur® Blade Repair Kits are available in easy to use, light weight packaging. Pre-measured amounts of both components are packed in a single pouch ready to mix and go.



Key Features:

- Light weight packaging
- Accurate mix ratio control
- Easy to use
- Minimal wasted adhesive
- OEM approved package
- Minimal packaging waste

SIKA FORCE® - 7800 BLUE & RED CARTRIDGE

SikaForce® - 7800 Blue & Red are available in convenient cartridge packaging. The co-axial format is designed to be used in a standard caulking gun.



Key Features:

- Easy open, tear off lid
- Accurate mix ratio control
- Easy to use
- Minimal wasted adhesive
- OEM approved package



- 1** Ring seal repair and finishing
Sikaflex®-521UV
Sikaflex®-221
- 2** Re-Attachment of parts
SikaForce®-7818 L7
Sikasil®AS-785
- 3** Filling of pin holes and general surface blemishes
SikaForce®-7800 Blue & Red
- 4** Final surface finishing of scuffs and scratches
SikaForce®-7812 L7 MR
- 5** Filling and repair of wind blade leading edge erosion
Sikadur® Blade Repair Kits
SikaForce®-7800 Blue & Red
- 6** Structural repair of cracks and damaged laminate
Sikadur® Blade Repair Kits
SikaForce®-7800 Blue & Red
- 7** Lightning protection
SikaForce®-7818 L7
- 8** Retrofitted winglets
SikaForce®-7818 L7