



YOUR PARTNER FOR METERING
AND MIXING TECHNOLOGY

RENEWABLE ENERGIES



WHO WE ARE – AND WHAT WE STAND FOR

Joined materials – metals, glass, plastics and composites can be found everywhere in our world, countless products are made out of them. Bonding technologies have more and more replaced traditional joining processes during recent years, and Reinhardt-Technik has adopted to this trend early.

What started in 1962 with a team of ambitious engineers has grown over half a century to a leading global supplier of dosing and mixing plants with a proven record of innovative solutions in the market place.

Processing liquid performance materials for bonding, sealing, moulding and surface treatment applications combined with system integration and process control are our well recognized core competences.

As a technology leader in the field of adhesive and sealant processing solutions we belong to the J. Wagner GmbH since 2012.

Wagner is a leading manufacturer of surface technology, with more than 1,400 employees globally and headquarters in Markdorf near Lake Constance.

- › **Customer orientation**
- › **Partnership**
- › **Innovative products**
- › **Individual solutions**
- › **Automation**
- › **Reliable applications**
- › **Global service**

RENEWABLE ENERGIES

Even that renewable energies have been in the global focus for the last 30 years the utilization of renewables is not really new – renewable energies have been used since the beginning of mankind. The power of water, wind and the sun worked for people thousands of years ago.

The last two centuries have been dominated by fossil and nuclear energies though.

Looking at the advantages of renewable energies it is obvious that those will further need to be extended in the future.

The major reason, why renewable energies are still in competition with the traditional fossil and nuclear energies, is the commercial aspect.

The industry will need to further develop systems which are commercially more attractive and provide substantial and sustainable commercial advantages for all regions, this includes compact and efficient energy collectors and generators like wind towers, photovoltaic or solar panels but also energy storage and transportation systems.

The path to these goals lead to developments of new material compositions, better and more efficient manufacturing processes.

Industrial adhesives and sealants play a significant role in the manufacturing processes of renewable energy systems.

Adhesives and sealants need to be accurately processed and precisely applied in order to ensure an optimum bond and sealing.

Ever increasing demands for higher productivity and quality ask for reliable processing equipment and quality control.

Reinhardt Technik is a preferred supplier of adhesive and sealant processing equipment to the renewable energy systems industry.

We offer a broad range of products to process liquid materials in different applications taking the manufacturing environment and local requirements into account.

Starting from simple manual applications to complete solutions with fully automated roboter cells with integrated process control – plus service and parts availability

Reinhardt Technik is a partner to many major adhesive manufacturers helping to optimize processes and find new solutions for the market – for the benefit of our customers.

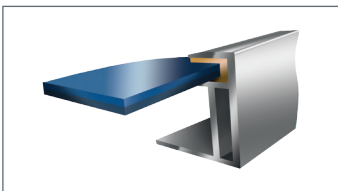
Learn more about manufacturing applications and our products & solutions.....



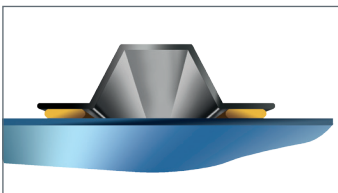
KEY APPLICATIONS



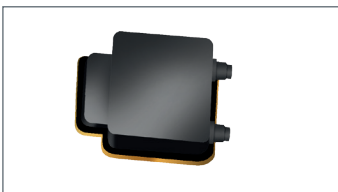
Solar Panel / PV Panel



1
Bonding and sealing of frame to glass panel
Bonding of corner connections



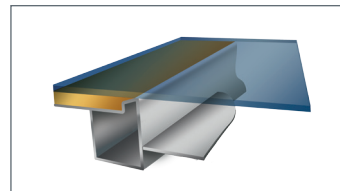
2
Bonding of backrails to frameless PV panels



3
Casting / Encapsulation of Junction box

4
Bonding junction box to panel

Solar Thermal Modules

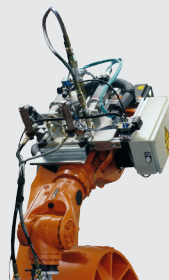


5
Bonding and sealing of panel frames

6
Bonding of bottom plates

Conti Flow Robot

Configurable gear metering system



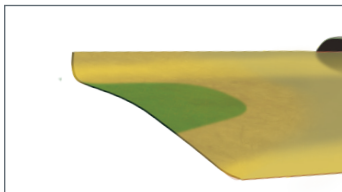
Conti Flow Vario

Precision gear metering system

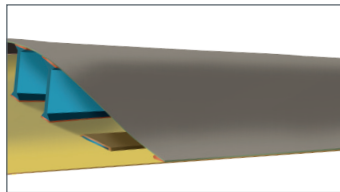




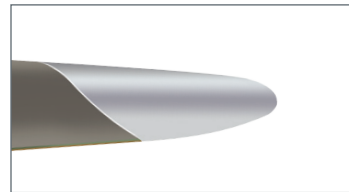
Wind rotor blades



7
Infusion process



8
Bonding of rotor blades shells



9
Gelcoat process

ContiPro™
Prog. cavity
metering system



Vecdos™ eTwin
Precision shot meter
system



Conti Flow Versa
Versatile two component
gear meter mix plant.



SOLUTION MATRIX

	APPLICATION	MATERIALS	SOLUTION
Solar Panel / PV Panel	Bonding and sealing of frame to glass panel Bonding of corner connections	2K Silicones	<ul style="list-style-type: none"> ■ Conti Flow Robot ■ Conti Flow Versa ■ Vecdos eTwin
	Bonding of backrails & junction box to panel	2K Silicones	<ul style="list-style-type: none"> ■ Conti Flow Robot ■ Conti Flow Versa ■ Vecdos eTwin
	Bonding junction box to panel	2K Silicones	<ul style="list-style-type: none"> ■ Conti Flow Robot ■ Vecdos eOne
	Casting / Encapsulation of Junction box	2K Silicones 2K Epoxies 2K Polyethuranes	<ul style="list-style-type: none"> ■ Conti Flow Robot ■ ContiPro ■ Conti Flow Vario ■ Vecdos eTwin
Solar Thermal Moduls	Bonding and sealing of panel frames	2K Silicones	<ul style="list-style-type: none"> ■ Conti Flow Robot ■ Conti Flow Versa ■ Vecdos eTwin
	Bonding of bottom plates	2K Silicones	<ul style="list-style-type: none"> ■ Conti Flow Robot ■ Conti Flow Versa ■ Vecdos eTwin
Wind Rotor Blades	Infusion process	2K Epoxies	<ul style="list-style-type: none"> ■ Conti Flow HV-INFUSION
	Bonding of rotor blades shells	2K Epoxies 2K Polyurethane	<ul style="list-style-type: none"> ■ Conti Flow HV
	Gelcoat process	2K Polyester Resin	<ul style="list-style-type: none"> ■ Conti Flow GC Compact

BENEFITS

- Innovative solutions help to save material, increase productivity and enhance sustainability
- Robust 1K and 2K processing equipment for reliable operation in demanding production environments
- Easy handling due to operator friendly and ergonomic design
- Optimized design and functionally based on close cooperation with material manufactures
- Standardized product portfolio provides on the spot service and spare parts availability

AUTOMATION

Reinhardt Technik is a technology solutions provider. In addition to the metering and mixing equipment, we also offer the complete automation system in the exact required specification.

Our know-how in assembly automation comprises:

- Pre-treatment (plasma, flaming, priming,...)
- Application of one-, two- or more component adhesives and sealants
- Various robot and handlings systems
- Plant design
- Curing processes
- Process control /Process visualization
- Data logging and documentation
- Quality assurance
- Remote service



YOUR GLOBAL PARTNER IN RENEWABLE ENERGIES

- **Processing and application of single and multi component adhesive and sealants**
- **Ambient and temperature conditioned equipment**
- **Complete systems for manual or fully automatic processes**
- **Innovative process control and verification**

