

COSMO® Adhesives & Sealants

for industrial manufacturing



Proven expertise

Bonding trust. Building solutions.

WEISS develops and manufactures high-performance adhesives, sealants, cleaners and primers, as well as sandwich panels for industrial applications — engineered for reliability and performance.



since 1815

210+ YEARS OF EXPERIENCE

Proven industrial know-how



INNOVATION DRIVEN

Continuously developing better solutions



DUAL EXPERTISE

Adhesives & Sandwich Panel Manufacturing



TRUSTED WORLDWIDE

Global presence, local partnership

ENGINEERED IN GERMANY

Quality, precision and reliability

Advisory service

Expert support for bonding & sealing

Selecting the right product is only the first step. Our technical experts support you from product selection and testing through application, process integration, and successful implementation in your production environment.



Application technology and product selection



Bonding application and process integration



Research & development support



Practical testing and quality assurance



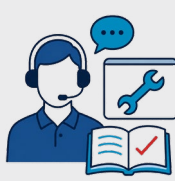
Environmental and safety-related guidance



Requirements analysis and process optimization



Delivery service, logistics and shipment tracking



Training, technical support and on-site assistance



Surface bonding

Solutions for industrial manufacturing

WEISS surface bonding solutions are engineered for diverse materials, production processes, and performance requirements across a wide range of industrial applications.



Industry sectors & typical applications



Transportation & mobility

- Recreational vehicles
- Buses & commercial vehicles
- Refrigerated & box bodies
- Special & rescue vehicles
- Railway
- Marine



Building Components & Construction

- Doors
- Windows
- Facade elements
- Roof & wall elements
- Modular construction
- Cleanroom partitions



Furniture & Wood Industry

- Furniture
- Panels
- Engineered wood
- Multi-layer wood modules
- Veneered surfaces
- Decorative surfaces



Panel & Composite Manufacturing

- Sandwich panels
- Composite panels
- Lightweight panels
- Laminated panels
- Surface laminations
- Structural panel elements



Refrigeration & Insulated Systems

- Cold rooms
- Refrigerated vehicle panels
- Insulation panels
- Thermal sandwich panels
- Cold-storage elements
- Insulated enclosures



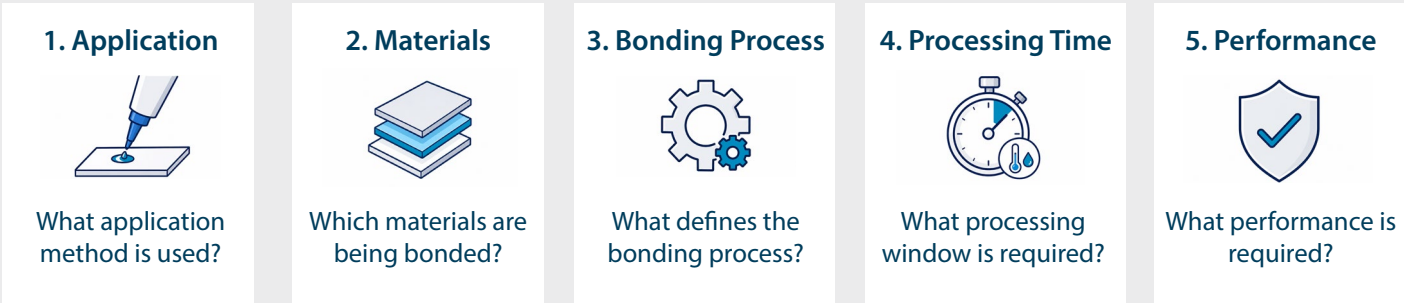
Industrial Equipment & Technical Panels

- Machine cladding
- Technical housings
- Acoustic elements
- Insulation systems
- Equipment panels
- Protective enclosures

Enabling successful surface bonding

From surface preparation to lasting performance

Successful bonding depends on the interaction of application method, materials, process design, and performance requirements. The right adhesive brings all of these factors together.



As both an adhesive and sandwich panel manufacturer, WEISS understands how facing materials, core materials, process conditions, and performance requirements interact.



Facing layers: Steel | Aluminum | GRP | HPL | Wood | PVC | Plastics

Core materials: PUR/PIR | EPS | XPS | PET/PVC Foam | Mineral Wool | Honeycomb | Balsa

Adhesive technologies: PUR

Choosing the right bonding system

1C-PU

One-component polyurethane adhesives enable easy handling without mixing equipment and lead to reliable bonding in various established industrial surface bonding applications.

- + Simple processing
- + No mixing equipment required
- + Lower equipment complexity
- + Foaming, joint-filling behavior
- + Cost-efficient process integration

2C-PU

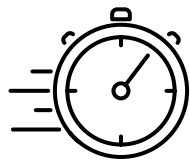
Two-component polyurethane adhesives react through the defined mixing of two components and are ideal for controlled, reproducible industrial bonding processes.

- + Controlled and reproducible processing
- + Mixing equipment required
- + Higher process control
- + Controlled, consistent bond line and higher functional strength
- + Well suited for automated processes

Core surface bonding portfolio
1C-PUR, 2C-PUR and 3C-PUR systems

The following overview compares selected products across key technical and processing parameters.

Product	System	Press Time to Functional Strength (min)	Tensile Shear Strength (N/mm ²)	Processing Window (min)	Viscosity Class	Viscosity (mPa·s)
● PU-160.740	1C	10	10.9	6	High	11 500
● PU-160.690	1C	45	7.9	18	Medium	3 800
● PU-160.180	1C	60	9.5	12	Medium	4 200
● PU-160.110	1C	90	13	25	Medium	4 900
● PU-160.440	1C	220	5	75	Medium	4 000
● PU-160.530	1C	240	6	40	High	6 500
● PU-220.680	2C / 3C	80	16	17	Low	3 000
● PU-220.590	2C	110	16	27	Medium	5 000
● PU-220.690	2C	180	16	60	Low	3 000
● PU-220.160	2C	240	16	75	Low	3 000
● PU-220.270	2C	360	6	100	Low	3 100
● PU-220.670	2C / 3C	480	15	260	Low	3 000



The Speed Specialist
PU-160.740
Functional strength after just 10 minutes.

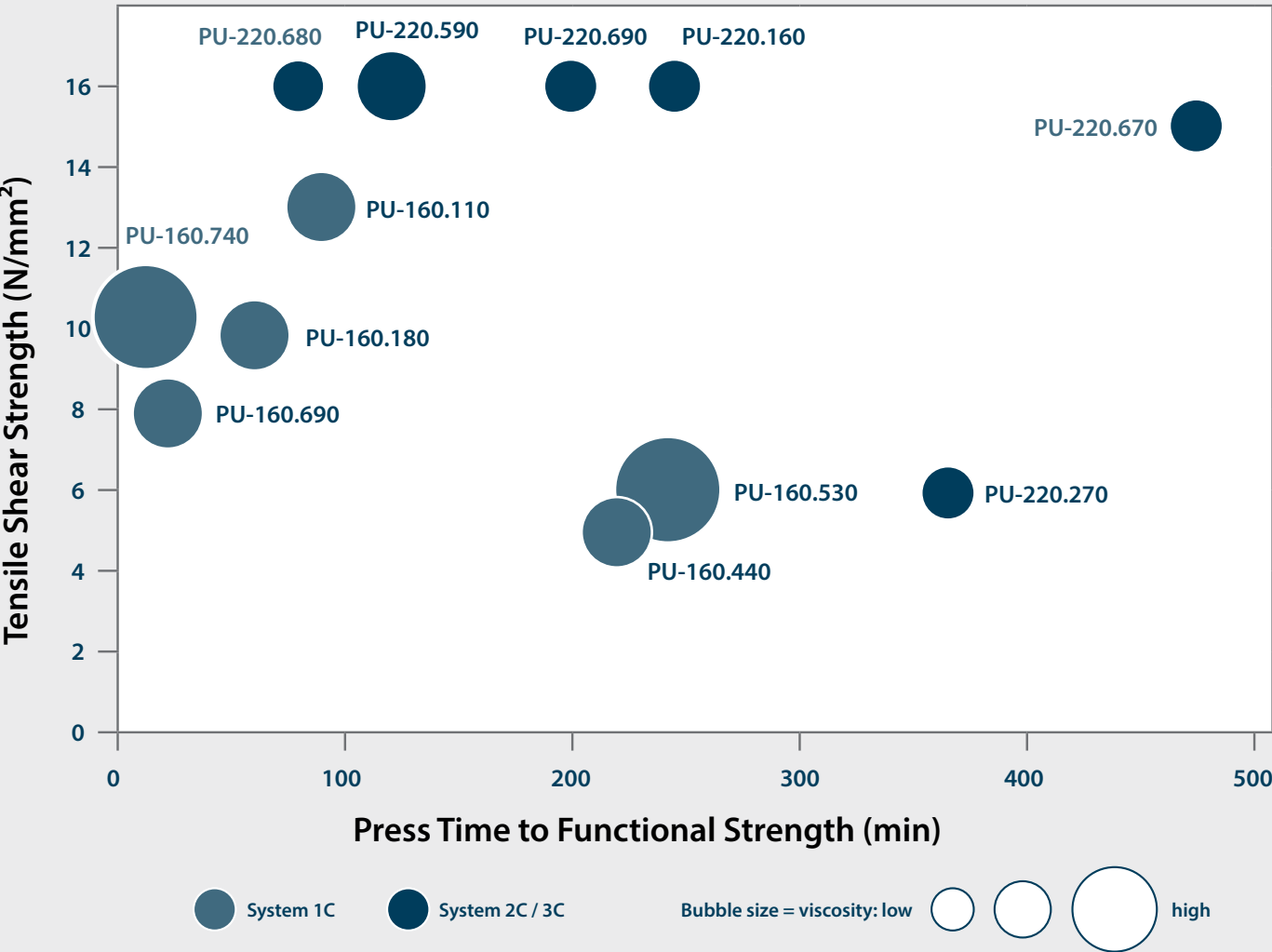


Flexible Press Times (3C)
PU-220.680 & PU-220.670
Adjustable press times in a 3-component system.

Surface bonding
Selecting the right adhesive for your process

Selecting the right adhesive depends on key technical and process-related parameters. The matrix below provides initial guidance across a selection of our core surface bonding portfolio. Our technical team can help you identify the best solution for your application or adapt an existing product to your specific requirements.

Core portfolio by press time to functional strength and tensile shear strength



The right adhesive can make a measurable difference in your process

Depending on your production priorities, the right adhesive can help improve the KPIs that matter most to your process:

- + Flexible cycle times
- + Optimized adhesive consumption
- + Higher process reliability
- + Reduced rework
- + Broader adhesion spectrum
- + Improved dispensing performance

Structural & assembly bonding

Adhesives for industrial manufacturing

Solutions for demanding applications, diverse materials and production requirements.



Transportation & mobility

- Body & auxiliary frames
- Sidewall & roof frames
- Floor modules & substructures
- Door & hatch frames
- Interior modules & partitions
- Reinforcement profiles



Building Components & Construction

- Window & door frames
- Façade frames & cassettes
- Corner joints for structural elements
- Modular building room cells
- Cleanroom frames
- Connection profiles



Furniture & Wood Industry

- Cabinet body & miter joints
- Frame constructions
- Table & seating frames
- Drawer & front panel joints
- Reinforcement strips
- Interior fit-out modules



Panel & Composite Manufacturing

- Edge & finishing profiles
- Panel butt joints
- Corner connectors
- Inserts & hardpoints
- Stringers & stiffening ribs
- Composite assemblies



Refrigeration & Insulated Systems

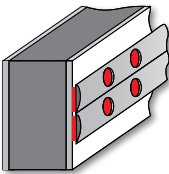
- Cold-room corner joints
- Insulated door & frame systems
- Wall-to-floor connections
- Wall-to-ceiling connections
- Panel butt-joint & corner connectors
- Service hatches & enclosures



Industrial Equipment & Technical Panels

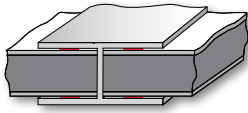
- Control cabinet & enclosure frames
- Machine enclosure corners
- Brackets & supports
- Service hatches & door frames
- Reinforcement profiles
- Equipment & functional modules

We turn bonding challenges into reliable, high-performance solutions. Across typical construction and assembly bonding scenarios, we know the critical factors that make the difference.



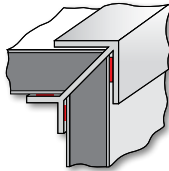
Battens

- Fast, flexible assembly
- High initial tack
- One-person installation



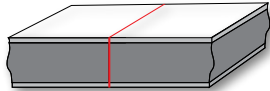
Butt joints & end profiles

- High structural strength
- Controlled curing (2C)
- Compensates differential movement



Roof & corner angles

- Strong structural bonding
- Controlled curing (2C)
- Bonding and sealing in one step



Floor & panel joints

- Elastic stress absorption
- Compensates movement and vibration
- Durable, flexible bonding

The right adhesive can make a measurable difference in your process. Depending on your production priorities, the right adhesive can help improve the KPIs that matter most to your process:

- + Faster cycle times
 - + Reliable processing
 - + Broad substrate adhesion
 - + High strength or permanent elasticity
 - + Reduced rework
 - + Combined bonding and sealing solutions

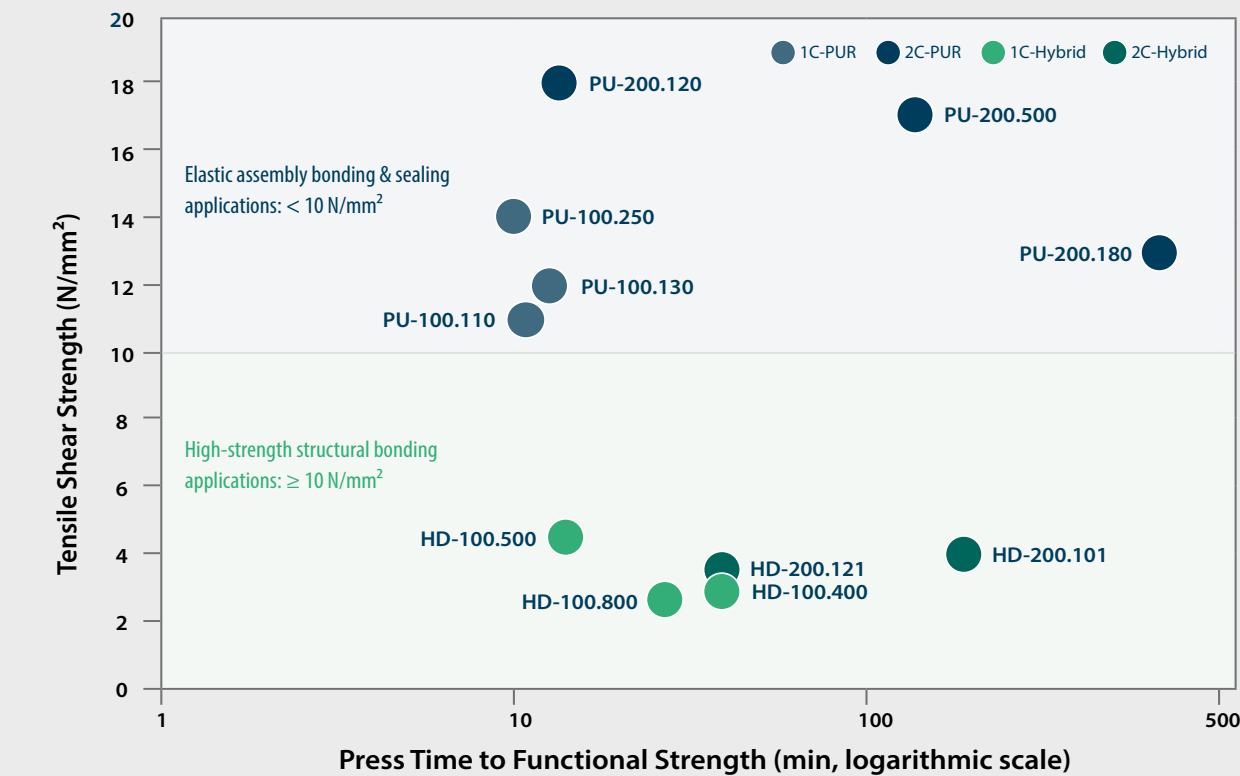
Our core portfolio at a glance

Selecting the right adhesive for industrial processing

The following overview compares selected products across key technical and processing parameters.

Product	System	Press Time to Functional Strength (min)	Tensile Shear Strength (N/mm ²)	Processing Window (min)	Key Characteristic
PU-100.250	1C-PUR	10	14.0	3	Strong
PU-100.110	1C-PUR	15	11.0	5	Assembly Pro
PU-100.130	1C-PUR	20	12.0	7	Metal Pro
PU-200.120	2C-PUR	20	18.0	5	Fast Structural Bonding
PU-200.500	2C-PUR	150–180	17.0	21	Window Construction
PU-200.180	2C-PUR	420	13.0	115	Tough-Elastic All-Rounder
HD-100.500	1C-Hybrid	20	4.5	9	Strong
HD-100.800	1C-Hybrid	45	3.0	9	High Tack
HD-100.400	1C-Hybrid	60	3.1	12	Versatile Bonding & Sealing
HD-200.121	2C-Hybrid	60	3.5	11	Fast Controlled Curing
HD-200.101	2C-Hybrid	210	4.0	30	Controlled Curing

Core portfolio by press time to functional strength and tensile shear strength



The right application method for every process

From manual to fully automated application

From manual dispensing and spray application to multi-nozzle and fully automated systems, WEISS supports the full range of application methods suitable for your adhesive, component geometry and production process. Application methods can be tailored to specific product and process requirements.

Manual application



Bead application



Roller application



Multi-nozzle application



Full surface application



Spray application



Packaging, supply & process integration

Flexible packaging solutions for industrial processing

Our adhesives are available in a wide range of packaging sizes to match your production volumes and application needs. From cartridges to bulk supply, packaging, dispensing technology and application methods can be tailored to your production process.

Cartridges



290 mL / 310 mL

Sausage packs



600 mL

Tandem cartridges



2 x 190 mL / 2 x 310 mL

Canisters



5 L / 10 L

Pail



12 L

Open-head pail



30 L

Drum



200 L

IBC



1 000 L

Strong partnerships for reliable dispensing solutions

We work closely with leading dispensing equipment manufacturers to provide reliable, process-adapted solutions.



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Follow us on LinkedIn



An overview of our range of products

Experience quality on a completely new level, with the powerful products by Weiss:



COSMO® Adhesives

Durably firm joints

COSMO® CA (Cyanoacrylates)
COSMO® PU (Polyurethane adhesives)
COSMO® CL (Cleaning agents)
COSMO® SL (Dispersion adhesives)
COSMO® HD (Hybrid adhesives)
COSMO® EP (Epoxy-resin adhesives)
COSMO® DS (Dispersion adhesives)
COSMO® SP (Service products)

Fields of application

- + Windows and doors
- + Transportation / Marine engineering
- + Industry
- + Assembly
- + Dry construction
- + Airtight bonding
- + Wood / Furniture industry
- + Container construction
- + Composite panels
- + Fire protection
- + Advertising industry

Do you have any questions?

Our Service Center

Business area Adhesives:

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+49 (0) 2773 / 815 - 274



COSMO® Composite panels

Unlimited possibilities for design

COSMO® Therm (heat-insulating)
COSMO® Silent (sound insulating)
COSMO® Protect (penetration resistant)
COSMO® Design (grooved)
COSMO® Tech (individual)
COSMO® Frame (frame widening)

Fields of application

- + Window and façade
- + Door construction
- + Industry
- + Automotive manufacturing
- + Trailer construction
- + Partition panel construction
- + Gate construction
- + Container construction
- + Energy conservation
- + Fire protection
- + Burglar resistance
- + Sound proofing

Do you have any questions?

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PUDOL Cleaning and care products

Cleanliness refreshes your senses

PUDOL SOFT

Mild cleaning agent for sensitive materials

PUDOL CARE

Maintenance product for high gloss and hygiene

PUDOL POWER

Powerful cleaning agent for extreme pollution

PUDOL FRESH

Cleaning agent for cleanliness and fresh air

Fields of application

- + Flooring
- + Sanitary installations
- + Clothing care
- + Foodstuff industry
- + Household and gastronomy
- + Windows and glass
- + Dishwasher
- + Carpet and upholstery
- + Industry and workshop
- + Cars
- + Skin cleaning
- + Skin protection

Do you have any questions?

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Cleanliness refreshes your senses

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