

COSMO Adhesives

Bonding & Cleaning / Window and door construction



weiss



Quality, service and high delivery reliability are the basic pillars of the success of our group of companies. We have continuously improved and further developed our portfolio in the past years, including through the acquisition of new companies. By now, about 300 employees at four sites participate in the success of our group.



Company

By pooling the core competences of adhesives and sandwich elements under a single roof, we are able to offer solutions from one source to our customers that are both economical and of high technical quality.

We are among the leading manufacturers in both segments in Europe and moreover, we also increasingly sell our products outside of Europe, such as in China, Russia and the USA.



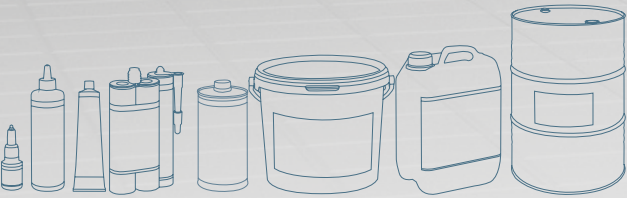
Company history

Since the company's foundation in 1815, Weiss has developed from a small hide-glue producer to an internationally acting, industrial company for modern adhesive systems and sandwich elements. With a passion for quality and the aspiration to meet our customers' high expectations, we are a recognised and reliable partner on the market.

! Weiss is the only enterprise that produces adhesives and composite panels.

Powerful product range

Business area Adhesives

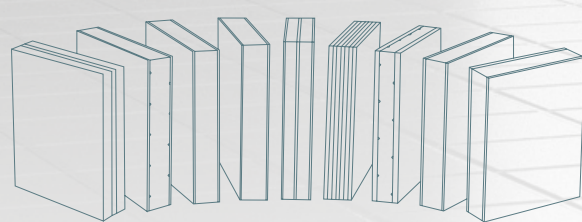


Durable firm bonding

Traditional bonding technologies like riveting, soldering, welding, or screwing are more and more replaced by modern adhesive systems, resulting in many advantages.

Our product range includes more than 400 variants of surface and construction adhesives, as well as instant and special adhesives for a wide variety of applications.

Business area Composite panels



Unlimited possibilities of design

Composite panels made by Weiss leave nothing to be desired. Because there is a large number of top coats and core materials available as well as the possibility of combining and processing them in many different ways, a vast number of creative designs results for the finished element.

Solutions for windows and doors
Our comprehensive range for production and assembly



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Biobased adhesives & cleaning agent



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Bonding, sealing & cleaning



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Bonding, sealing & cleaning



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Bonding



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Bonding of EPDM, RAL assembly, repair & forming



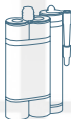
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Weiss: your competent and strong partner



Aluminium windows, doors, folding shutters & insect screens

Protection of the profile cut edges S.07



Aluminium windows, doors folding shutters & insect screens

Corner angle bonding S.06



Plastic / aluminium windows

RAL assembly / connection bonding S.11



Adhesives

Processing accessories S.13

Plastic windows

S.13

Cleaning, care, protection & maintenance



Plastic / aluminium windows

S.11

Bonding of EPDM seals



Plastic windows

S.08

Bonding of additional profiles



Plastic / aluminium windows

S.07 & S.09

Profile cleaning and preparation of bonding



Certifications

Low-emission adhesives from Weiss / www.emicode.de

GEV-EMICODE®-licensed products

EMICODE® is a recognised standard for construction products (adhesives, amongst others) promoting healthy living and is a quality label for the proof of low VOC-emissions. Products labelled with EMICODE® are modern, solvent-free and low-emission construction products.



The "DIN-certified bio-based" label / www.dincertco.de

A neutral and transparent quality label regarding the content of bio-based carbon and the product quality makes finding resource-efficient products easier. By using the "DIN-certified bio-based" label, it is certified that we use bio-based raw materials and undergo regular monitoring.



8C092

Sustainable and environmentally friendly products

The results of successful research and development

COSMO BIOBASED



Environmental thinking - not waiting!

The world's population is increasing - but our fossil resources are decreasing. So, more than ever before, it is essential to think of a sustainable future! Exactly for these reasons, sustainability, particularly regarding environmental protection, is of particular importance. It is therefore also an important subject for Weiss, not only for today, but also for future generations.

Responsible management of our water protection, exhaust gasses, and waste cycles already form part of our firmly established standards. And now, to further optimize our utilization of resources, we are concentrating on replacing fossil fuels in our adhesives with renewable resources.



Ecological sustainability - bio-based adhesives

Our bio-based adhesives actively contribute to the protection of the environment: As innovative products, they have been developed with particular consideration for our limited resources, yet without losing sight of the top quality which we consider a matter of course.

To a large extent, many of these raw materials produced by agricultural and silvicultural processes are climate-neutral. This way, no increase of CO₂ emissions will be generated in the future. Environmental and limited resources will be protected for further generations. In the meantime, there are numerous possibilities for processing the most diverse bio-based materials such as starch, vegetable oil, resins, lignins, proteins, and others. It is also possible to use renewable raw materials in adhesives. By substituting fossil resources, we have succeeded in developing adhesives on the basis of bio-based products.



Optimization of our adhesives

Our bio-based adhesives include a high content of raw material from renewable sources. Simultaneously we are further improving their already very good properties. Sustainable quality....**made by Weiss!**



Bio-based adhesive & cleaning agent

We always have our environment in mind



Corner angle bonding in alu window construction

COSMO PU-100.900

1-C-PUR reaction adhesive

- Particularly fast reaction time
- Uniform curing
- Tough-hard adhesive joint

Bio-based carbon content: 26%



Corner angle bonding in aluminium window construction

Coming soon: COSMO PU-200.900

2-C-PUR reaction adhesive

- H351 (R40)-free
- UV colour-fast

Bio-based carbon content: 60%



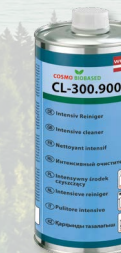
Bonding of window joint tapes / RAL assembly

COSMO DS-470.900

1-C dispersion adhesive

- Good application at low temperatures
- Fast curing

Bio-based carbon content: 47%



Cleaning plastic and aluminium windows

COSMO CL-300.900

- Intensive cleaning effect
- Mild odour
- Slightly dissolving on plastic

Bio-based raw material content: 80%



Corner angle bonding

Aluminium windows, doors, folding shutters & insect screens



Injection method

For profile systems where the adhesive is injected into the profile through a specially positioned borehole.



Classic method

Before joining the profiles, the corner angle adhesive is applied to the profile chambers directly from the cartridge or using a spatula.

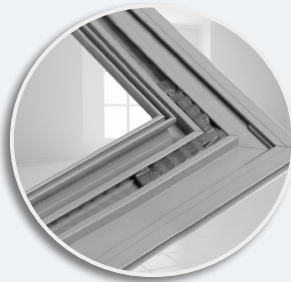


| 1-C adhesive | COSMO PU-180.120 | COSMO PU-100.130 | COSMO HD-100.110 | COSMO HD-100.450 | COSMO BIO-BASED PU-100.900 |
|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------------------|
| Adhesive base | Polyurethane | Polyurethane | STP hybrid | STP hybrid | Polyurethane |
| Shore hardness | 75D | 60D | 75A | 60A | 60D |
| Film hardness | Elastic | Tough-elastic | Elastic | Elastic | Tough-elastic |
| Skinning time [min] | 18 | 7 | 9 | 6 | 5 |
| Viscosity | Low viscous | Low viscous | Low viscous | Medium viscous | Medium viscous |

| 2-C adhesive | COSMO PU-200.280 | COSMO PU-200.330 | COSMO EP-200.110 | COSMO PU-200.350 | COSMO HD-200.101 | COSMO BIO-BASED PU-200.900 |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------------------|
| Adhesive base | Polyurethane | Polyurethane | Epoxy resin | Polyurethane | STP hybrid | Polyurethane |
| Shore hardness | 85D | 65D | 85D | 80D | 63A | 80D |
| Film hardness | Tough-hard | Tough-hard | Tough-hard | Tough-hard | Elastic | Tough-hard |
| Pot life [min] | 60 | 50 | 60 | 30 | 30 | 25 |
| Viscosity | Low viscous | Low viscous | Medium viscous | Low viscous | Low viscous | Low viscous |

Corner angle bonding, sealing & cleaning

Aluminium windows, doors, folding shutters & insect screens



Bonding of corner angles in aluminium facing formworks

In order to refine the windows, aluminium facing formworks are placed on existing windows. The individual aluminium profile formworks are joined to a frame at the mitred corners with corner connectors made from die cast aluminium and bonded forced-locked.

1-C MS adhesive COSMO HD-100.400

Very low-emission 1-C- hybrid reaction adhesive

- #### Special Properties

 - High strength
 - Elastic adhesive joint
 - UV colour-fast

Colour: White

2-C MS adhesive COSMO HD-200.101

Fast and controlled full hardening 2-C- hybrid reaction adhesive

- #### Special Properties

 - High strength
 - Elastic adhesive joint
 - UV colour-fast

Colour: grey

Cleaning

Cleaning of aluminium and powder coated as well as anodised surfaces.

Aluminium cleaning agent

Non-etching COSMO CL-300.150

Removes fresh adhesive residues, dust, grease pencil, rubber residues and fresh PUR foam.



Sealing of cross-profile edges

To prevent bare aluminium cut edges from corroding, they must be effectively protected against air and moisture.

Corrosion sealant COSMO HD-100.411

Colour: grey (also available in white and black)



Bonding & sealing

Plastic windows & doors



Bonding of additional profiles

Bonding of additional sections, such as sill drips, drain bars, cleats and roller shutter bars, as well as cover caps and roller shutter guides in PVC profiles.

PVC adhesive **COSMO SL-660.110**

Special Properties

- UV- and weather-proof
- Fast curing
- UV colour-fast

H351 (R40)-free version: **COSMO SL-660.250**

Colour: white (also available in transparent)



Joint bridging bonding and sealing

Bonding and sealing of additional profiles

Assembly adhesive **COSMO SL-660.150**

Special Properties

- Gap filling for joint width up to 7 mm
- High initial adhesion
- UV- and weather-proof



Bonding of film-laminated profiles

Bonding of end strips on film-laminated profiles as well as roller shutter guides and end caps.

Fast-setting adhesive **COSMO CA-500.130**

Special Properties

- Solvent-free
- Very high strengths
- UV- and weather-proof
- Re-closable dosing cap



Clean

Plastic windows & doors



Non-dissolving cleaning

Special cleaning agent for plastic surfaces

Plastic cleaning agent **COSMO CL-300.140 SPECIAL**

With antistatic agent for plastics, e.g. (PVC, PMMA, PC, SAN) and film-laminated profiles

Special cleaning agent **COSMO CL-300.150**

- For PVC hard white and film-laminated profiles
- *Without antistatic agent*, also for preparation of bonding
- Removes fresh adhesive residues, dust, grease pencil, rubber residues, fresh PUR foam, fresh adhesive residues, as well as tar and bitumen spots.



Dissolving cleaning

Removing markings and coarse pollution.

PVC smoothing agent **COSMO CL-300.110**

For the removal of scratches in PVC hard white surfaces.

Special Property

- Strongly dissolving



PVC cleaning agent **COSMO CL-300.120**

for profiles made of PVC hard white Cleaning of various, non-transparent thermo-plastic and duroplastic plastic materials.

Special Property

- Slightly dissolving

PVC cleaning agent **COSMO BIO-BASED CL-300.900**

Intensive cleaning of plastics. 80% made of renewable resources

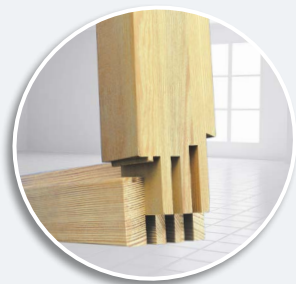
Special Property

- Slightly dissolving

80% bio-based

Bonding

Wooden windows & doors



Bonding of mortise tenon joints

For the bonding of different soft, hard and exotic wood types, we recommend:

Dispersion adhesives

COSMO DS-400.110

COSMO DS-400.130

Special Properties

- D3-/D4 dispersion adhesives as per DIN EN 204 and test method WATT 91
- Tough-elastic adhesive joint
- Can be ground when cured
- High heat resistance



Bonding of window edges

For the bonding of window edges, we recommend our dispersion adhesive

COSMO DS-400.130

If a longer open time is required, we recommend our PUR adhesive:

1-K-PUR adhesive COSMO PU-160.110

Special Properties

- Long open time
- Tough-hard adhesive joint
- D3-/D4 dispersion adhesives as per DIN EN 204 and test method WATT 91



Bonding of EPDM seals & connection bonding

General tasks concerning windows & doors



Bonding of EPDM seals

Window, façade and door elements are equipped with profile seals made of EPDM to a large extent. The corners and joints of EPDM window seals are bonded with many systems. An immediate bonding is desired here.

CA fast-setting adhesive **COSMO CA-500.110**

Very fast curing adhesive for the EPDM adhesives in window construction

Special Properties

- Short fixing times
- Long storage stability
- Re-closable dosing cap

Adhesive sealant **COSMO HD-100.410**

Particularly suitable if an elastic bonding joint is required for EPDM joints.

Special Properties

- Elastic adhesive joint
- Joint-filling



RAL assembly / connection bonding

Bonding of joint tapes on window and door jambs

Bonding and sealing of fleece-laminated jointapes for window and door assembly.

Adhesive sealant for assembly works **COSMO HD-100.510**

1-C-STP reaction mass

Bonding of joint tapes on window and door jambs

Bonding and sealing of fleece-laminated jointapes for window and door assembly.

Special Properties

- permanently elastic after curing

Adhesive sealant for assembly works **COSMO DS-470.900**

1-C dispersion mass

Special Properties

- Can also be processed at temperatures up to +5°C
- EMICODE class EC1^{PLUS}

47% bio-based



Pre-treatment, bonding or frames & repair

General tasks concerning windows & doors

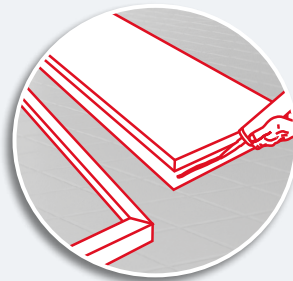


Pre-treatment for self adhesive joint tapes

Adhesion promotion for self adhesive joint tapes on different types of absorbent mineral substrates such as, cement and gypsum fibre board, concrete, stone, brick and lime sand brick masonry.

1-C dispersion primer **COSMO SP-830.160**

- Permanently tacky after curing



Bonding of frame profiles for wing-concealing front doors

The optimum adhesive and the precise method depends on the door system, the design requirements as well as the materials to be bonded.

Good results are generally achieved using our 1-C PUR adhesive **COSMO PU-100.110**.

As an alternative, we recommend or professional system 2-C STP adhesive **COSMO HD-200.101** in combination with our activator **COSMO CL-310.110**.



Window repair

Repair of cracks, wrong bores and other damages.

PVC repair agent **COSMO SP-710.110**

- Very high strengths



Forming

Reshaping and bending of thermoplastic plastic profiles

Bending fluid **COSMO SP-780.110**

- Odourless
- Biologically degradable



Accessories & care

General tasks concerning windows & doors

Compressed air & manual pressure guns

COSMO SP-750 & SP-760

For dosing of COMSO tandem cartridges.

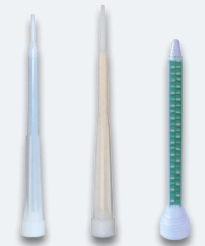


Static mixing tubes

COSMO SP-800

Static mixing tubes for homogeneous mixing of 2-C adhesives for the use of tandem cartridges.

- Homogeneous mixing achieves a constant adhesive quality
- Easy handling of tandem cartridges with static mixer



Cleaning & care of windows & doors

COSMO CL Service Set

Practical sets for cleaning, care, protection and maintenance of windows and doors, roller shutters, sealings and mechanical systems.

Set contents for white profiles and decorative profiles

- Cleaning milk with abrasive contents or special colour cleaning agent
- Sealing care
- Fitting oil
- Cleaning rag



Special cleaning agent for fly screens & mosquito nets

Pollen dust on both sides, insect faeces and house dust from fly nets, mosquito nets and pollen protection grating made of nylon or metal.

Properties

- Highly effective
- Low foaming
- CLP conform and no marking required
- In a practical set Spray bottle and cloth



PUDOL

PUDOL belongs to the Weiss company group and stands for convincing quality of special products in the field of commercial cleaning. Next to a complete range of cleaning and care products for different applications, we offer a comprehensive service with individual solutions and benefits.

Our service and advisory performances

Weiss, your competent and strong partner

We strongly support you!

Weiss is representing top performance in the areas of **adhesive and sandwich element technology**.

For many decades, Weiss has been very successful in setting new market standards in terms of quality and excellent service. With our comprehensive product line of adhesives and sandwich panels, we are covering a wide variety of different applications.

Expert advice and service are counted to the elementary core competencies of our company. For all technical questions referring the application of our products the competent consultants of our Service Center will be available for you with their specialist knowledge.



Contact data:

Phone: +49 (0) 2773 / 815-0

Business area Adhesives
E-mail: ks@weiss-chemie.de

Business Area Sandwich Elements
E-mail: se@weiss-chemie.de

Internet:
www.weiss-chemie.de

Our service and advisory performances

| | | | |
|--|--|--|--|
|  <p>Support with creating the requirements specification</p> |  <p>Expert advice on product selection</p> |  <p>Optimisation tips for the design of the bonding surfaces</p> |  <p>Rationalisation proposals for work flows</p> |
|  <p>Recommendation of suitable application devices as well as application and pressing technology</p> |  <p>Optimisation of workstations for the processing of adhesives and composite panels</p> |  <p>Expert advice on all questions referring dangerous substances and goods</p> |  <p>Creation and modification of adhesives and sandwich elements in our Research and Development department</p> |

Pudol – Cleaning and care agent

Cleanliness refreshes your senses

PUDOL stands for convincing quality of special products in the field of commercial cleaning. Next to a complete range of cleaning and care products for different applications, we offer a comprehensive service with interesting solutions and benefits.



PUDOL

Contact data:

Phone: +49 (0) 2743 / 9212-0
Fax: +49 (0) 2743 / 9212-71
E-mail: info@pudol.de
Internet: www.pudol.de

Our products and application fields





| Product groups | Cleaning program | Fields of application |
|--|---|--|
| <ul style="list-style-type: none"> • PUDOL SOFT for sensible materials • PUDOL CARE for high-gloss hygiene • PUDOL POWER for extreme soiling • PUDOL FRESH for cleanliness and fresh air | <ul style="list-style-type: none"> • Universal / multi-purpose cleaning agent • Industrial cleaning agent • Carpet cleaning agent • Fresh cleaning agent • Special cleaning agent • Disinfection cleaning agent • Floor cleaning agent • Basic cleaning agent • Wipe cleaning products • Main care products | <ul style="list-style-type: none"> • Universal • Flooring • Sanitary installations • Clothing care • Foodstuff industry • Household and gastronomy • Special • Windows & glass • Dishwasher • Carpet & upholstery • Industry & workshop • Skin cleaning & protection • Cars |

An overview of our range of products

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



COSMO Adhesives

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

Areas of application Adhesives



Automotive
manufacturing



Shipbuilding



Container
construction



Fire protection



Industry



Window / door
construction



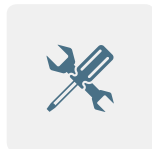
Sandwich
board manu-



Dry construc-
tion



Airtight bond-
ing



Assembly
works



Advertising
industry



Construction
of railway
vehicles



COSMO Composite panels

COSMO Classic (Classic composite panels)
COSMO Silent (Noise insulation)
COSMO Protect (Burglar/penetration resistance)
COSMO Design (Upmarket appearance)
COSMO Tech (Technical elements)
COSMO Therm (Basic elements)

Areas of application Sandwich elements



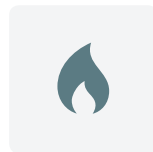
Automotive
manufacturing



Shipbuilding



Container
construction



Fire protection



Industry



Window con-
struction/



Façade



Gate construc-
tion



Partition panel
construction



Sound proof-
ing



Burglar/pene-
tration
resistance



Energy conser-
vation

Do you have any questions?

Our Service centre is available for you:

+49 (0) 2773 / 815 - 255

+49 (0) 2773 / 815 - 274



Weiss USA LLC
P.O. Box 509
Monroe,
North Carolina 28111-0509

Phone: (704) 282-4496
Fax: (704) 289-7091
Mail: info@weiss-usa.com
Web: www.weiss-usa.com

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