

COSMO® BOND & SEAL

Sealants for professional dilatation joints



Together toward success

Discover a Legacy of Excellence



For more than 210 years, our company is crafting products of exceptional quality - products that inspire confidence and enable success. What began in 1815 as a small hide glue manufacturer has grown into a global leader in adhesive systems and composite panels.

While we initially built our reputation in Germany, our commitment to quality and innovation has now led us to expand our presence across Europe, America, Africa and Asia. With a team of 400 dedicated employees working across three sites, we continue to push the boundaries of what's possible, offering cutting-edge solutions that meet the high demands of today's industries.

We don't just manufacture products; we deliver trust.

Safety generates confidence, and confidence generates safety.



Powerful product range

Business area Adhesives & Sealants

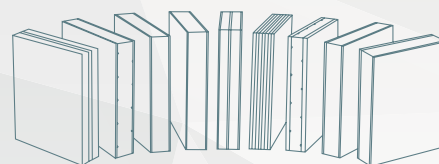


Durably firm joints

Traditional joining technologies like riveting, soldering, welding, or screwing, will increasingly be replaced by modern adhesive systems, resulting in many advantages.

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

Business area Composite panels



Unlimited possibilities for design

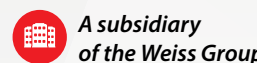
Our range of products includes more than 5,000 variants of composite panels. Because there is a large number of top coats and core materials available as well as the possibility of combining and processing them in many different ways, a vast number of creative designs results for the finished element.

PUDOL Cleaning and care agent



Cleanliness refreshes your senses

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



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

COSMO® BOND & SEAL

Reliable sealing solutions – especially for precast façades and floors

About Weiss COSMO® BOND & SEAL	Joint Sealing Types	Sealants Properties	Technical Service	COSMO® Adhesives Sealants	General Service Page
p. 02	p. 04	p. 6	p. 7	p. 8	p. 10

Where **façades**, **floors**, and **structural elements** meet, absolute tightness is essential. **COSMO® BOND & SEAL** offers a versatile range of high-performance **sealants**, specifically designed for **connection** and **dilatation joints** in **horizontal** and **vertical applications**.

Our innovative technologies ensure long-lasting, **elastic joints** – even under the most challenging conditions. **COSMO® sealants** stand for **reliable performance**, **strong resistance** to external influences, and **easy, efficient application**.

Rely on experience, quality, and certified safety – with COSMO® BOND & SEAL.

For construction projects where nothing is left to chance.



CERTIFICATIONS



COSMO® BOND & SEAL

Joint Sealing - A Key to Structural Integrity and Long-Term Performance

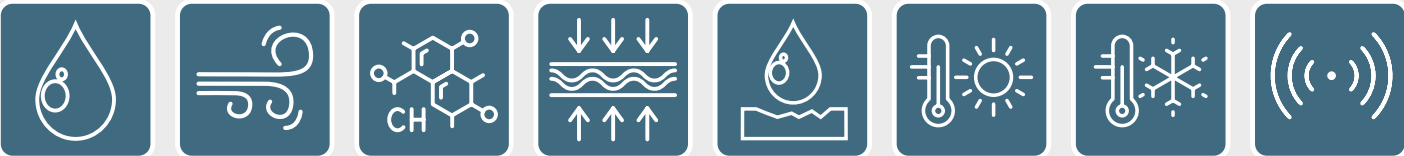
Joint sealing is a critical process in construction and industry, ensuring the tightness, durability, and resistance of structures. Effective sealing prevents leaks, protects against external agents, and absorbs structural movements without compromising material integrity.



IMPORTANCE OF JOINT SEALING

Joints allow controlled expansion and contraction between structural elements due to thermal variations, structural loads, and ground settlements. Proper sealing:

- + Prevents the infiltration of water, air, and aggressive chemicals
- + Protects against corrosion, erosion, and premature material deterioration
- + Absorbs structural movements without compromising joint integrity
- + Improves thermal and acoustic insulation, optimizing energy efficiency



COSMO® BOND & SEAL

Joint Types and Recommended Sealants at a Glance

EXPANSION JOINTS

Planned separations in structures to absorb movements caused by thermal variations and mechanical stresses.

Recommended Sealants

- + High-modulus elastomeric sealants based on polyurethane
- + MS polymers

CONSTRUCTION JOINTS

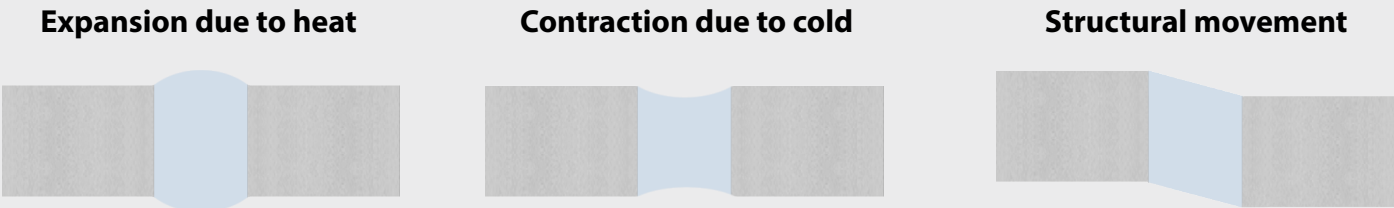
Joints created at points of interruption in the construction process, where sealant adhesion and cohesion are essential.

Recommended Sealants

- + Polyurethane
- + Hybrid MS polymer sealants with high adhesion and chemical resistance

JOINT MOVEMENT

Joints in construction must accommodate various movements such as expansion caused by heat, contraction due to cold, and structural shifts. These dynamic factors require flexible sealing solutions to ensure long-term durability and safety.



SELECTION OF THE APPROPRIATE SEALANT

- SUBSTRATE COMPATIBILITY

Concrete, metal, wood, glass, technical plastics, etc.
- ENVIRONMENTAL CONDITIONS

Exposure to UV rays, humidity, aggressive chemicals, service and temperature
- MOVEMENT CAPABILITY

Determined according to ISO 11600 or ASTM C920 standards
- MECHANICAL RESISTANCE AND DURABILITY

Performance under dynamic stresses and external loads

COMPARISON OF SEALANT PROPERTIES

	POLYURETHANE (PU)	MS POLYMER (HD)	ACRYLIC
Elasticity	Medium-High	High	Low-Medium
Adhesion	Excellent	Excellent	Moderate
UV Resistance	Medium	Excellent	Good
Chemical Resistance	High	High	Low-Medium
Paintable	✓	✓	✓
Curing Time	Fast	Fast	Medium
Application on wet Surfaces	-	✓	-
Durability	High	Very High	Medium
Recommended Use	+ Dilatation joints in floors and walls + High resistance to abrasion	+ Dilatation joints in walls and connections + No hazard pictograms required	+ Fire resistance + Non structural joints

Our façade and floor sealants stand for long-lasting quality – and we support your project from start to finish with expert technical service:

- CONSULTING & DESIGN SUPPORT

 - + Technical advice starting in the early design phase
 - + Assistance with joint design and dimensioning
 - + Tailored solutions for each specific façade and floor system
- TECHNICAL ASSURANCE

 - + Comprehensive technical documentation
 - + Extensive performance testing (adhesion, material compatibility, UV resistance, aging)
 - + Full product validation for long-term durability and real-world reliability
- APPLICATION & TRAINING

 - + Hands-on training for applicators
 - + On-site technical support during critical project phases
 - + Risk reduction and improved application efficiency

- LOGISTICS & AVAILABILITY

 - + Central distribution platform near key markets
 - + Fast, flexible, and reliable delivery solutions
 - + High product availability to meet tight construction schedules

Partner with us for precision sealing solutions – from concept to completion.



COSMO® BOND & SEAL

Adhesives & Sealants for professional dilatation joints

COSMO® BOND & SEAL provides the ideal solution for sealing façades and floors, as well as connection and dilatation joints. Whether you need flexible sealants for movement compensation or high-strength adhesives for structural bonding, our products deliver outstanding performance across a wide range of applications.



			
PRODUCT NAME	HD FAÇADES	MULTITALENT	PU CONSTRUCTION
Produkt Number	COSMO® HD-100.610	COSMO® HD-100.400	COSMO® PU-110.160
Product Type	Hybrid Sealant	Hybrid Adhesive Sealant	Polyurethan Sealant
Special properties / main topic	Dilatation & Connection Joints	Horizontal & Vertical Sealing	Horizontal & Vertical Sealing
Shore Hardness	25 A	55 A	30 A
Elongation at break	550 %	350 %	750 %
Viscosity	1.200.000 mPa.s	600.000 mPa.s	360.000 mPa.s
Classification	25 LM	20 HM	25 LM
Skinning time	approx. 30 min	approx. 12 min	approx. 120 min
Compatible with natural stone	✓	✓	✓
Tensile shear strength (at +20 °C)	0,7 N/mm²	3,1 N/mm²	1,5 N/mm²
APPROVALS			
Sealant certifications	EN 15651 part 1 Type F-EXT-INT-CC, class 25LM	EN 15651-1 F-EXT-INT-CC 20HM EN 15651-4 PW-EXT-INT-CC 20HM	EN15651-1 Type F-EXT-INT-CC 25LM EN15651-4 Type PW-EXT-INT-CC 25LM ASTM C920 Type S Grade NS Class 50 Use T2, M, A, O, L
Fire protection	EN13501-1 Class E	EN13501-1 Class E	EN13501-1 Classe E
French VOC-Emission class A+	✓	✓	✓
Emicode EC1 ^{Plus}	✓	✓	–
DETAILS			
Colour	white / grey	white / grey	white / grey
Maximum storage life	12 months	18 months	12 months

COSMO® BOND & SEAL

Adhesives & Sealants for professional dilatation joints

1 HD FAÇADES

Secure and efficient sealing of prefabricated components with our low modulus hybrid sealant.

2 MULTITALENT

This versatile MS polymer adhesive sealant combines high-strength bonding and flexible sealing in a single product.

3 PU CONSTRUCTION

High-performance polyurethane sealant for durable sealing in construction and industry.

4 FIRE STOP PROTECTION

Specialized dispersion sealants for tested and certified fire protection applications.

ADDITIONAL SOLUTIONS

Primer / First Coat COSMO® SP-830.180

For adhesion promotion and improvement on various absorbent and mineral substrates.

Package: 1.000 g bottle



Activator & Cleaner COSMO® CL-310.110

+ Cleans and improves adhesion on PVC, ABS, PC, PET, GRP, and powder-coated surfaces
+ Enhances adhesive joint durability on concrete, aerated concrete, sandstone, and brick

Colour: Colourless

Package: 250 ml metal bottle



Smoothing Agent COSMO® SP-870.160

For smoothing of sealing and bonding joints of the HD series. Optimised joint appearance

Colour: Colourless

Package: 1.000 g bottle



Façade Cleaner - Cement Remover

Acidic cleaner for tiles and façades – removes coarse dirt, rust, and dissolves cement and concrete residues. Free of hydrochloric acid!

Packages: 1 l bottle, 10 l canister



Manual pressure gun

COSMO® SP-760.120
for 600 ml tubular bags

Air pressure gun

COSMO® SP-750.140
for 600 ml tubular bags



	
FIRE PROTECTION	LIQUID MEMBRANE
COSMO® DS-420.300	COSMO® HD-120.150
Acrylic Sealant	Hybrid Sealant
Fire Stop Sealant (EI 240)	Structural Waterproofing
10 A	36 A
–	230 %
370.000 mPa.s	12.500 mPa.s
12,5 P	–
approx. 10 min	approx. 25 min
–	
0,3 N/mm²	–
EN15651-1 Type F-EXT-INT 12,5P	DIN 18533
EN 1366-4, BS 476 Part 20, ANSI/UL 2079, UL C-5115	
✓	✓
–	✓
white / grey	grey
24 months	12 months

Digital media

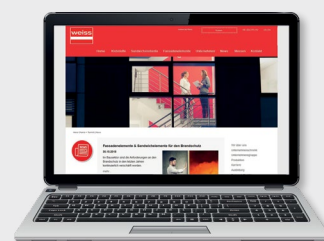
Interactive communication

ALWAYS UP TO DATE

We are happy to bring our products and fields of application closer to you at the www.weiss-chemie.de and to keep you informed about the latest developments.

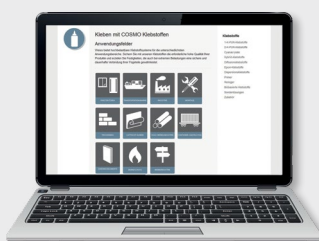


Current issues



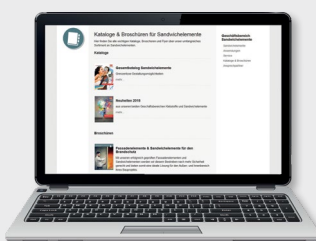
- + By our slide show and our News column you are always informed on current topics and remain up to date.

Fields of Application



- + The reorganisation of our Fields of Application enables you to intentionally look for application solutions and conveniently to navigate to your search target.

Service / Downloads



- + In our Product / Application area, you will directly find the appropriate contact person. In addition, you can easily download all print media as well as data sheets.

Trade fairs

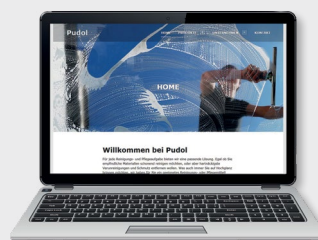


- + Visit us at our booths at the national and international trade fairs and obtain information online about all details and facts referring our participations in trade fairs.

PUDOL – Cleaning and care agent

- + **PUDOL** stands for convincing quality of special products in the field of commercial cleaning. In addition to a complete range of cleaning and care products for different applications, we are offering a comprehensive service with interesting solutions and benefits. Visit our website: www.pudol.de

Cleanliness refreshes your senses



Application engineering

More than 210 years of experience



CUSTOMER SUPPORT

Flexibility and the creation of customer-oriented problem solutions count among the elementary objectives of our company. Therefore, it is very important to us to provide professional and innovative solutions with convincing advantages for production methods and with high efficiency in close cooperation with our customers.

A highly motivated team of application engineers, materials testers and chemists with long-term experience in development, modification, materials science, building physics and application of adhesives and composite panels is on hand with help and advice for you.



Application engineering Adhesives



- + Support with creating the requirements specification
- + Expert advice on the selection of adhesives
- + Optimisation tips for the design of the bonding surfaces
- + Rationalisation proposals for work flows
- + Recommendation of suitable dosing units as well as application and pressing technology
- + Optimisation of workplaces when using adhesives
- + Training for workers and specialist dealers; technical lectures
- + Creation and modification of adhesives in our Research and Development department



Test possibilities in our application technology and internal research and development department

- + With our own test facilities we are not only able to test in compliance with DIN and EN standards but we can also evaluate your components (component sizes) under operating conditions in a practice-oriented way. In addition, we ensure the high quality of our products on the basis our cooperation with the most diverse testing institutes.



Application engineering Composite panels



- + Individual element structure
- + Application-specific material components
- + Project-related proposals for solutions
- + Selection of materials in accordance with construction-physical requirements and conditions

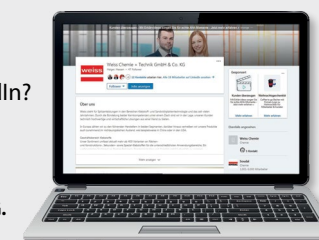


Test possibilities in our Technical Centre

- + **Materials tests:**
 - Storage at alternating climate
 - 3-point bending rigidity
 - Perpendicular tensile strength
 - Colour measurement
 - Storage in water
 - Determination of U-values
- + Furthermore, we are working together with famous testing institutes that are responsible for fire protection and sound insulation.



Are you also a member of LinkedIn? Then follow us. We regularly post interesting news. You will find us at:
Weiss Chemie + Technik GmbH & Co. KG.



An overview of our range of products

Experience quality on a whole 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:
+49 (0) 2773 / 815 - 255
+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?

Our Service Center
Business Area Composite panels:
+49 (0) 2773 / 815 - 321

Our Service Center
Business area Façade:
+49 (0) 5245 / 9241 - 21



PUDOL Cleaning and care agent

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?

Our Service Center PUDOL:
+49 (0) 2743 / 9212 - 0



Plant I
Weiss Chemie + Technik
GmbH & Co. KG
Hansastr. 2
D-35708 Haiger

Phone: +49 (0) 2773 / 815 - 0
Fax: +49 (0) 2773 / 815 - 200
E-mail: ks@weiss-chemie.de

www.weiss-chemie.de

Plant II
Weiss Chemie + Technik
GmbH & Co. KG
Siemensstr. 8
D-33442 Herzebrock-Clarholz

Phone: +49 (0) 5245 / 9241 - 0
Fax: +49 (0) 02773-815-300
E-mail: se@weiss-chemie.de

PUDOL



*A subsidiary of the
Weiss Group*

Pudol Chemie GmbH & Co. KG
Bahnhofstr. 2
D-57520 Niederdreisbach

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

Cleanliness refreshes your senses

made by weiss