# COSMO® BOND & SEAL

Sealants for professional dilatation joints





# **Together toward success**

# Discover a Legacy of Excellence



# **COSMO® BOND & SEAL**

Reliable sealing solutions – especially for precast façades and floors

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.





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.

# Powerful product range

Business area Adhesives & Sealants Business area Composite panels



#### 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.



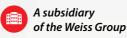
#### Unlimited possibilities for design

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.

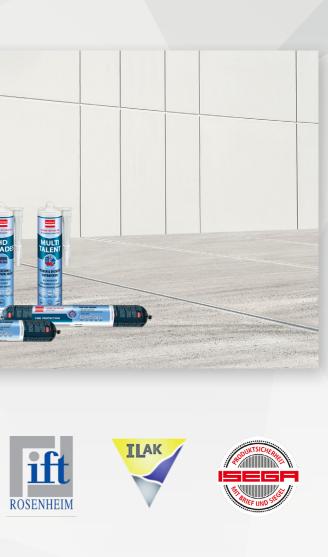






Weiss is the only enterprise that produces adhesives and composite panels.

2



# COSMO<sup>®</sup> BOND & SEAL

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

# COSMO<sup>®</sup> BOND & SEAL

Joint Types and Recommended Sealants at a Glance

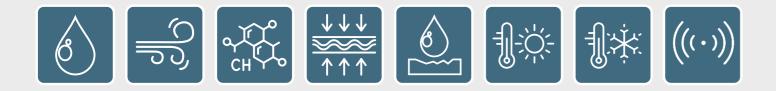
Joint sealing is a critical process in construction and industry, ensuring the tightness, durability, and resistance of structures. Effective sealing prevents leaks, protects against external agents, and absorbs structural movements without compromising material integrity.



# **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





## **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.







#### Contraction due to cold

## Structural movement





# COSMO<sup>®</sup> BOND & SEAL

Sealant Selection Criteria and Property Comparison

# **COSMO® BOND & SEAL**

Technical Service & Application Support for Façade & Floor Sealants

# **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	<b>√</b>	✓	✓
Curing Time	Fast	Fast	Medium
Application on wet Surfaces	-	✓	-
Durability	High	Very High	Medium
Recommended Use	<ul> <li>+ Dilatation joints in floors and walls</li> <li>+ High resistance to abrasion</li> </ul>	<ul> <li>+ Dilatation joints in walls and connections</li> <li>+ No hazard pictograms required</li> </ul>	+ 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

 $\checkmark$ 

✓

white / grey

12 months

French VOC-Emission class A+

Emicode EC1<sup>Plus</sup>

Maximum storage life

**DETAILS** Colour

# **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.



	TUBULAR BAG 600 ml	CARTRIDGE	CARTRIDGE CARTRIDGE 310 ml TUBULAR BAG 600 ml
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
Classfication	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/mm <sup>2</sup>
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

✓

✓

white / grey

18 months

 $\checkmark$ 

white / grey

12 months

# 1 HD FAÇADES

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



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



FIRE PROTECTION	LIQUID MEMBRANE	
COSMO® DS-420.300	COSMO® HD-120.150	
Acrylic Sealant	Hybrid Sealant	
Fire Stop Sealant (El 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-S115		
✓	✓	
_	✓	
white / grey	grey	
24 months	12 months	

## **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 | bottle, 10 | canister

## Manual pressure gun

**COSMO® SP-760.120** for 600 ml tubular bags



Air pressure gun COSMO<sup>®</sup> SP-750.140 for 600 ml tubular bags











# Application engineering More than 210 years of experience

# **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.





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

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

# 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





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.



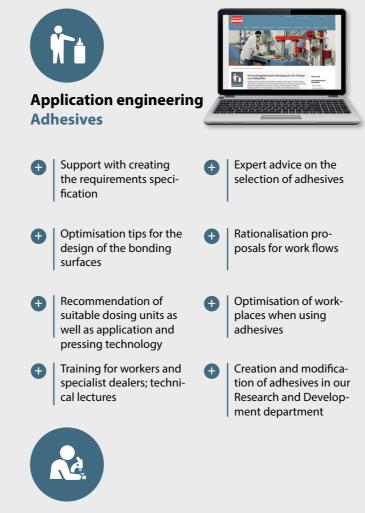
+ Visit us at our booths at the national and international trade fairs and obtain information online about all details and facts referring our participations in trade fairs.



## 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.

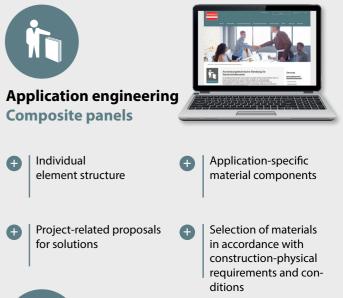
A highly motivated team of application engineers, materials testers and chemists with long-term experience in development, modification, materials science, building physics and application of adhesives and composite panels is on hand with help and advice for you.



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

H 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.







## **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



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.

Furthermore, we are working together with famous testing institutes that are responsible for fire protection and sound insulation.



# 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 installatations
- 🛨 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



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