

# Coatings for textiles and for surface finishes



Quality creates cohesion



SEALING & BONDING



# Quality creates cohesion ... for over 140 years!



Founded in Berlin in 1881 by Hermann Otto as a window putty manufacturer, the company has been producing silicone sealants since the early 1960s. Adhesives based on polyurethanes, silane-terminated polymers (hybrid) and acrylates round off the product range. The sealants and adhesives are developed in OTTO's own laboratories and marketed under the brand names of OTTOCOLL® (sealants), OTTOCOLL® (adhesives) and Novasil® (industrial applications). A broad range of special products facilitates solutions to complex problems.

As a manufacturer, OTTO is synonymous with top expertise in sealing and adhesive technology in industry and trade across all sectors. With its products, most of which are premium, OTTO has done more than just secure market leadership in its sector; it is also considered a driver of innovation in many fields due to its quality and performance.

A close partnership with its customers provides the precondition for OTTO satisfying the needs

of discerning customers. Sales currently occur through more than 40 field staff employees. OTTO is appreciated as a socially committed, reliable employer by its around 490 employees. Modern production plants and an attractive administration building provide the perfect working atmosphere from both a profession and social point of view, and create the best conditions for employees who are both satisfied and motivated.

With the large training rooms, the OTTO training centre offers plenty of room to hold theoretical as well as practical seminars and training sessions on all topics relating to sealants and adhesives.

OTTO is expanding its production capacities by building a new production plant. Following a construction period lasting just 18 months, the first stage of construction's fully automatic production line was commissioned on schedule in late summer 2020.

OTTO – quality creates cohesion

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The information in the present document corresponds to the status quo on going to print, (refer to the index on the outside back cover).  
With a new edition this edition becomes invalid.

Due to the many possible influences during and after application, the customer always has to carry out trials first.  
Please observe the respective technical data sheet! This information is available on the Internet at [www.otto-chemie.com](http://www.otto-chemie.com).  
Errors and typographical errors are excepted.



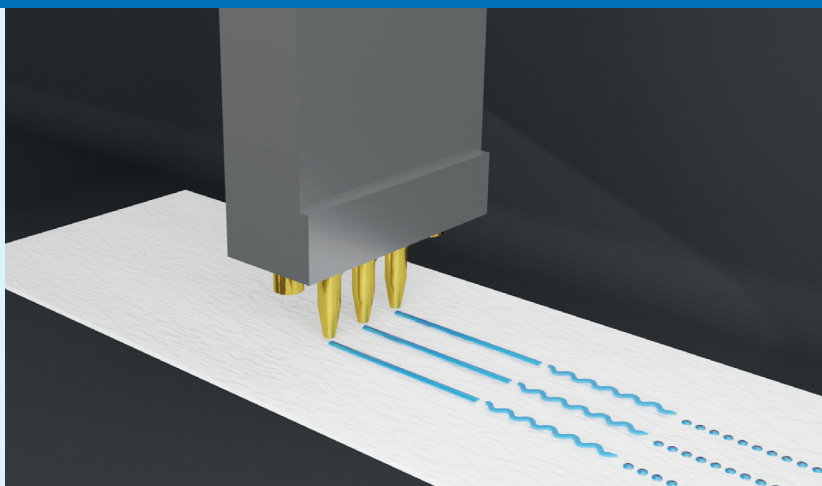
# Coating of narrow bands



Narrow band coatings on various textiles are invisible helpers in everyday life. The transparent Novasil® textile coating keeps your textiles firmly in place, thanks to the anti-slip effect. In orthopaedic applications, Novasil® silicones meet the corresponding standards and offer a high level of wearing comfort.

## The OTTO solution

- ✓ Tested for skin compatibility
- ✓ Certified as per the OEKO-TEX® STANDARD 100
- ✓ Flexible and permanently elastic
- ✓ Specially developed for dot and strip application





# Our Novasil® coatings for textiles

Silicones	AS420	AS421	AS470	S 144	S 148
Components	2-component	2-component	2-component	1-component	1-component
System	1:1	1:1	1:1	✗	✗
Technology	Addition	Addition	Addition	Condensation	Condensation
Splitting product	✗	✗	✗	Acetate	Acetate

## Viscosity at 23 °C

Flowable	☑	☑	☑	☑	☑
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## End state

Mild elasticity - Shore A < 25	☑	☑	☑	☑	☑
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## Surface

Non-sticky	☑	✗	☑	☑	☑
Sticky	✗	☑	✗	✗	✗

## Temperature resistance

To 180°C	☑	☑	☑	☑	☑
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## Application

Coating of narrow bands	☑	☑	✗	☑	☑
Flocking	✗	✗	☑	✗	✗

## Characteristics

Tin-free	☑	☑	☑	☑	☑
Suitable for dot coating	☑	☑	✗	☑	✗
Suitable for strip coating	☑	☑	☑	✗	☑
Very fast skin formation	✗	✗	✗	✗	☑
Heat accelration	☑	☑	☑	✗	✗

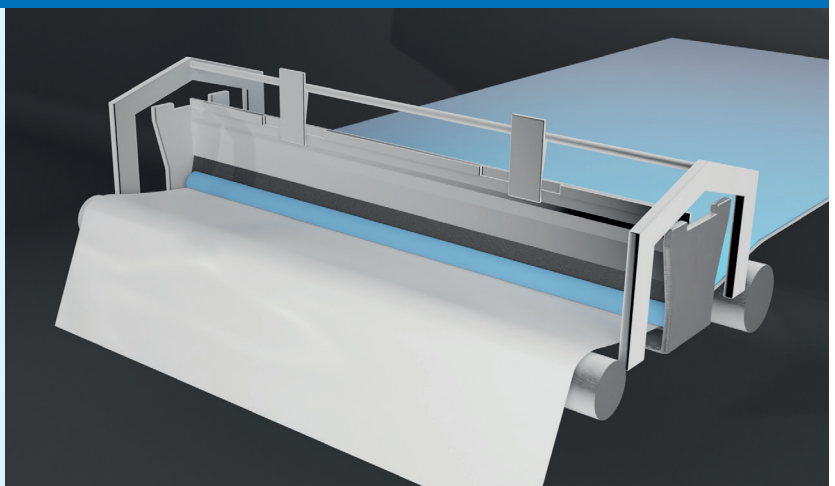
# Conveyor belt coating



There are a lot of moving parts in production facilities. High demands are placed on the surface of a conveyor belt when processing food. Fast belt speeds and small deflection radii place tremendous stresses on conveyor belts. Novasil® offers a permanently elastic solution that is abrasion-resistant and withstands very high mechanical loads.

## The OTTO solution

- ✓ FDA and Federal Institute for Risk Assessment certified
- ✓ Easy to clean
- ✓ Resistant to cleaning agents
- ✓ Elastic and flexible





# Our Novasil® coatings for conveyor belts

Silicones	AS431	S90
Components	2-component	1-component
System	1:1	✗
Technology	Addition	Condensation
Splitting product	✗	Acetate

## Viscosity at 23 °C

Flowable	✓	✓
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## End state

Medium elasticity - Shore A 25 – 60	✓	✓
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## Temperature resistance

To 180°C	✓	✓
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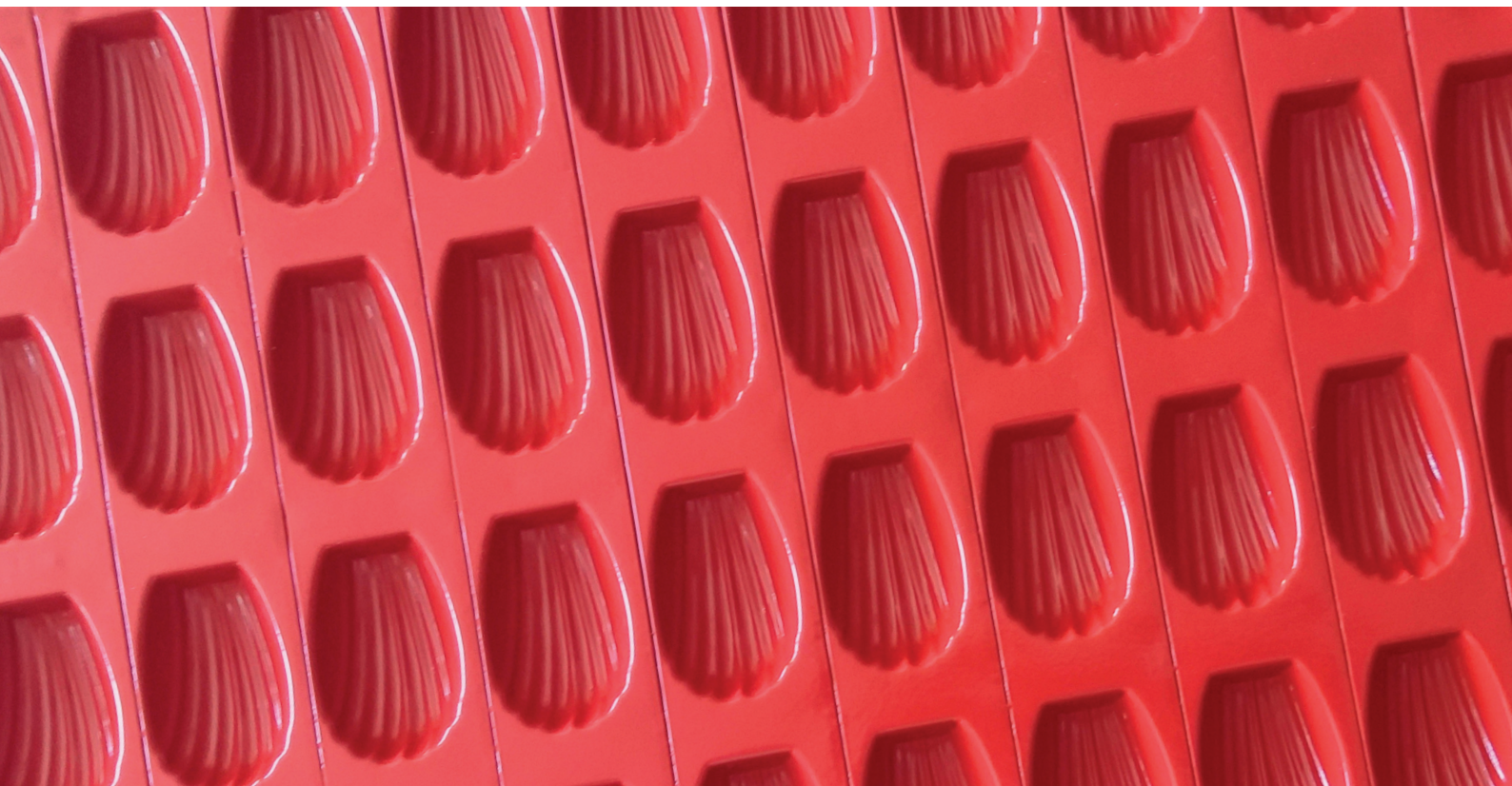
## Application

Coating of conveyor belts	✓	✓
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## Characteristics

Very high mechanical strength	✓	✓
Very fast curing	✓	✓
Cures at room temperature	✗	✓
Self-levelling	✗	✓
Heat acceleration	✓	✗

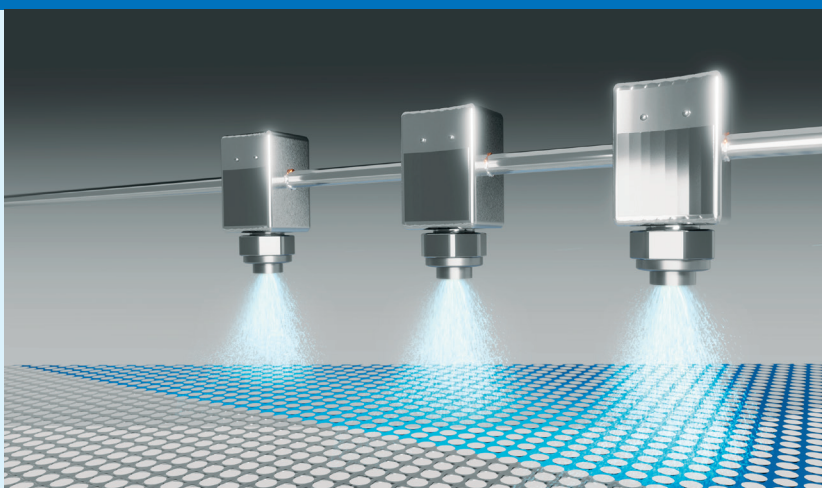
# Baking tray coatings



Thousands of baked goods run through industrial baking lines every day. The temperatures are often more than 200°C. Novasil® is well-suited for the high mechanical and thermal continuous stresses thanks to the exceptional and unique properties of silicones.

## The OTTO solution

- ✓ FDA-certified
- ✓ Temperature stable
- ✓ Permanently elastic
- ✓ Flexible





# Our Novasil® coating for industrial baking trays

<b>Silicone – Acetate</b>	
Component	<b>S 142</b> 1-component
<b>Viscosity at 23 °C</b>	
Flowable	☑
<b>End state</b>	
Medium elasticity - Shore A 25 – 60	☑
<b>Temperature resistance</b>	
To 240°C	☑
<b>Application</b>	
Coating of baking trays	☑
<b>Characteristics</b>	
High mechanical capability	☑
Dilutable for spray coating	☑
Excellent adhesion on many substrates, partly in combination with primer	☑

# Benefit from knowledge and experience

**Prime quality and highly specialised sealants and adhesives, but also coatings make OTTO an important partner for many industries.**

For textile and surface finishing in particular, we offer specialised and customer-oriented coating materials that cover your application. In addition to a standardised product portfolio, we are also happy to meet your individual needs and accompany your application through to process optimisation through corresponding product modifications and developments.

Not only can you expect always consistently high product quality and quick and reliable delivery from OTTO, but also the greatest possible flexibility, many years of experience and extensive expert knowledge when it comes to developing tailor-made solutions.

The earlier you contact us, the better we can meet your needs. From the first product design to setting up production, we are at your side to help and advise.



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## Application consultation

Which coating suits your task best? Our application consultation defines a profile of requirements together with you, helping you to find exactly the right product from our product range.

## Prototype consultation

Are you planning a new product? The earlier you speak with us, the better we can grasp your ideas. And perhaps even your optimise your product idea when it comes to the design and costs. We are also happy to give you samples to use for prototype tests.

## Individual product solutions

If we do not have the coating to meet your ideas, then we will work on implementing this. We will first clarify together with you the exact requirements, such as the physical and chemical loads, the materials used, the specific properties of the coating, aesthetic requirements and production sequences. Then we will develop exactly the solution that suits your product. Also in a small series.

## Process consultation

The integration of coating compounds into the production process is another focus of our range of consultation. No matter whether semi-automatic or fully automatic, we are happy to advise you in choosing the processing machines and optimise the processing times to ensure a fluid production process.

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# The OTTO360° service package

## MORE THAN SEALANTS AND ADHESIVES

As an OTTO customer, you get more than premium quality sealants and adhesives. You also benefit from a comprehensive service package that supports you in your daily work and makes it noticeably easier.

Whether it's advice, ordering and delivery or equipping our retailers on site, with our OTTO360° service package we always try to offer our customers the best possible support in all areas – from professionals for professionals.



Flexible production



Prototype consultation |  
Industry testing



Process consultation for new  
systems & production automation



Development of product solutions  
together with the customer



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