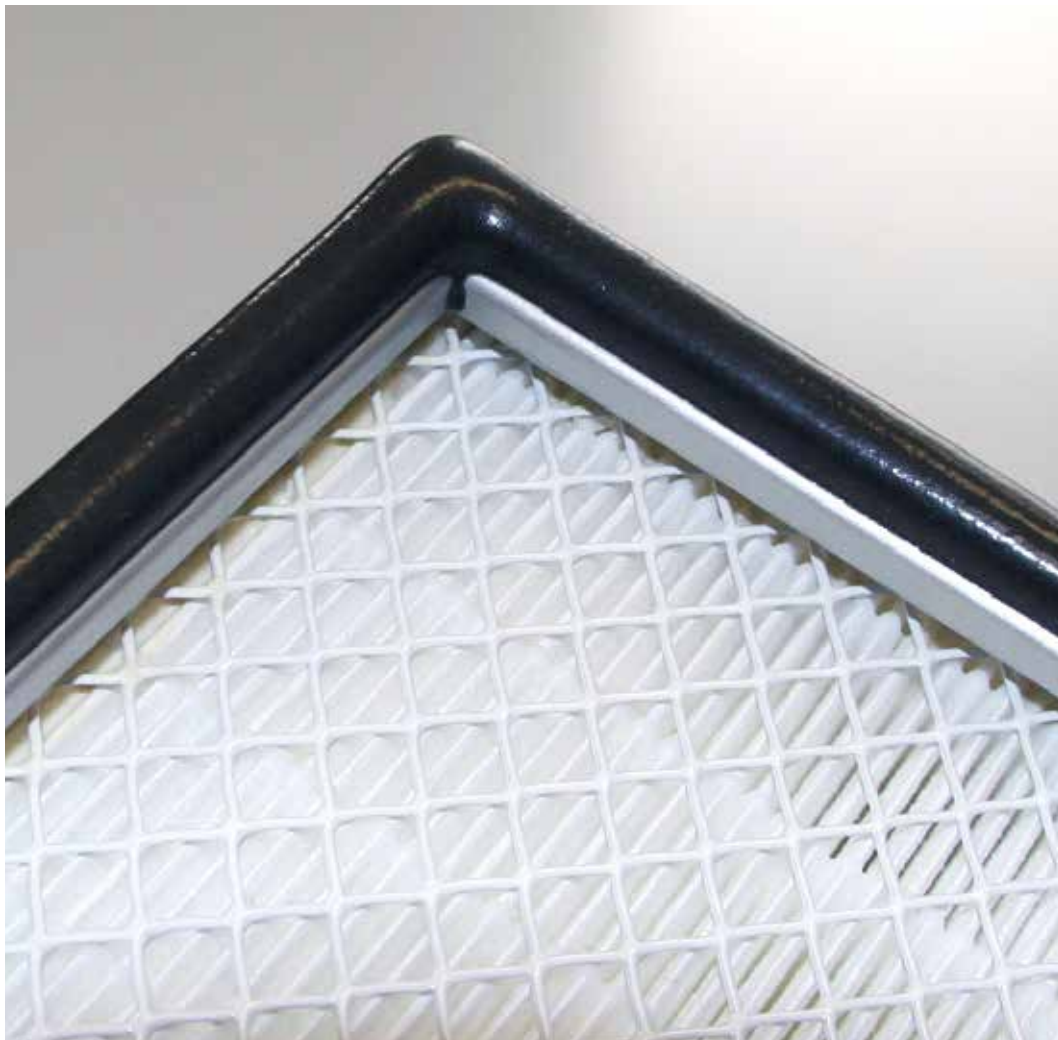


The New Generation of

# **KLEIBERIT Foam Gaskets**



Customized Solutions

Competence **PUR**

# KLEIBERIT Foam Gaskets – the Customized

## 2 Component PUR Foams

KLEIBERIT foam gaskets are foamed directly on components with the help of FIPFG-Technology (Formed-in-Place-Foam-Gasket).

The systems consist of a polyol component (A component) and a hardener (B component) which are mixed together at a given mixing ratio. A soft and resistant foam gasket is created after a few minutes.



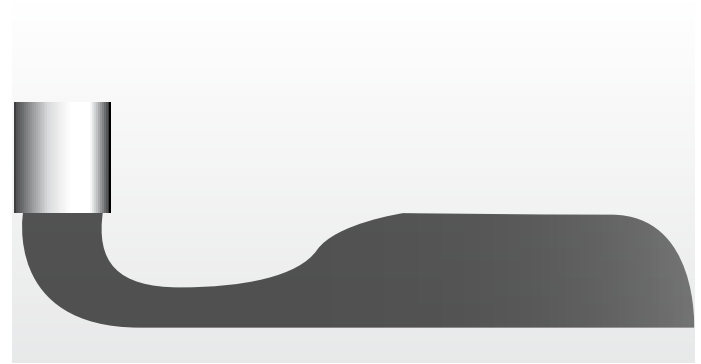
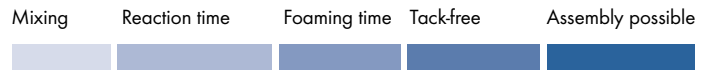
## Why KLEIBERIT Foam Gasket?

- They are best suited for sealing many industrial building components.
- It is possible to use foam gaskets for practically all forms and geometry, including three dimensional.
- The foam gaskets are non-tacky in 2-25 minutes at room temperature.
- Large building component tolerances can be easily balanced with foam gaskets
- The sealing function is extremely stable against influences like moisture, dust and temperature.

## The Foam Gasket Technology

### The Reaction Process

The reaction is started through the mixture of components A and B. The result is a smooth chemical process under room temperature conditions. The applied compound foams to a uniform gasket in the process.



### The Foaming Process

**Start time:** is the time frame in which components A and B are mixed.

**Reaction time:** is the time frame in which the system starts to react (after approx. 20 - 60 seconds)

**Foaming time:** is the time frame in which the system expands to a gasket (after approx. 15 - 249 seconds)

**Tack-free time:** is the time in which the gasket surface is tack-free at room temperature and can be touched without damage (after approx. 2 - 25 minutes)

**Assembly time:** is the time frame in which the system can be stressed and when the sealed components can be assembled (after approx. 25 minutes - 12 hours)



# Solutions

## Fields of Application

### Automotive Industry

- Engine bay
- Interior
- Lighting
- Body

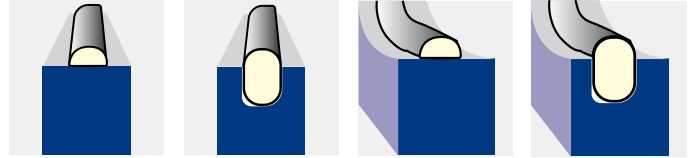
### White Goods

- Kitchen machine
- Vacuum
- Filter
- Washing machine



Foam gasket lip for electronic switch cabinet door

## Application methods



2-dimensional application on an even surface

2-dimensional application in a groove

3-dimensional application on a surface

3-dimensional application in a groove



Foam gasket lip for filter

### Filter Industry

- Hepa filter
- Industrial filter

### Renewable Energy

- Solar
- Photovoltaic

### Electronics

- Switch cabinet door
- Electrical housing
- Light systems
- Air conditioning

### Packaging Industry

- Industrial packaging
- Packaging lid
- Pails, drums
- Container

## Advantages of KLEIBERIT Foam Gaskets

- Very low density
- Very soft: Shore 00: 35-45
- Very low compression set
- Very low water absorption

## KLEIBERIT Foam Gaskets Product Overview

| KLEIBERIT 2C-PUR Adhesives | Product Comp. A | Color | Density in beaker g/L | Product Comp. B | Mixing Ratio | Hardness Shore 00/A | Consistency | Start time (s) | Tack Free time | Comp Set 70 °C 24 h, 50 % | Elongation at break | Tensile strength N/mm <sup>2</sup> |
|----------------------------|-----------------|-------|-----------------------|-----------------|--------------|---------------------|-------------|----------------|----------------|---------------------------|---------------------|------------------------------------|
|                            | 523.1           | black | 190                   | 523.2           | 100:28       | 70 / 15             | Thix        | 20             | 130 s          | < 2% (80 °C)              | 140%                | 0.40                               |
|                            | 523.3           | black | 190                   | 523.6           | 100:20       | 45 / -              | Thix        | 40             | 150 s          | 8%                        | 180%                | 0.18                               |
|                            | 523.8           | grey  | 210                   | 523.6           | 100:18       | 35 / -              | Fluid       | 70             | 8-10 min       | 8%                        | 200%                | 0.15                               |
|                            | 523.9           | white | 210                   | 523.6           | 100:20       | 45 / -              | Fluid       | 60             | 7-9 min        | 8%                        | 180%                | 0.19                               |

# Modern Technology, Know-how and Commitment...

**KLEBCHEMIE M.G. Becker GmbH & Co. KG** has been developing and producing adhesives for a wide variety of industrial applications since 1948. The company, founded M. G. Becker, began the development of adhesives predominately for the wood working industry. However, today we can fulfil the high demands of a wide variety of industries for the bonding of wood, plastics and metals.

Always a step ahead of the future, our experienced chemists, chemical technologists and engineers develop new high quality adhesives in our development laboratories in accordance to customer requirements. Great emphasis is placed on environmentally friendly and ecologically "clean" adhesives.

Our applications laboratory tests our products for our own high product and application quality expectations with state of the art machines. This enables us to test our products under production conditions. Qualified wood and plastics engineers, wood technologists and machine engineers recreate production conditions to trial bonds under strict and intense controls in accordance to DIN and RAL.

Constant monitoring of the raw materials and product quality enables us to delivery high quality products at any time. Before the filling / packing of any product, a production sample of every batch is analysed in our quality control laboratory to determine chemical and physical compliance. Only after these tests are passed will the product receive QC clearance.

## KLEIBERIT® Adhesives worldwide:

**KLEIBERIT Chimie S.a.r.l.**  
Reichstett, France

**KLEIBERIT Adhesives UK**  
Coalville, Leicestershire, United Kingdom

**KLEIBERIT Adhesives USA Inc.**  
Waxhaw, North Carolina, USA

**KLEIBERIT Adhesives of Canada Inc.**  
Toronto, Ontario, Canada

**KLEIBERIT Adhesives Asia Pte. Ltd.**  
Singapore, Singapore

**KLEIBERIT Adhesives Australia**  
Sydney, Australia

**KLEIBERIT Adhesives Japan**  
Osaka, Japan

**KLEIBERIT Adhesives Beijing Co., Ltd.**  
Beijing, China

**KLEIBERIT Russia**  
Moscow, Russia

**KLEIBERIT Adhesives India Private Ltd.**  
Bangalore, India

**KLEIBERIT-UKRAINE LLC.**  
Kiev, Ukraine

**KLEIBERIT Kimya San. ve Tic. A.Ş.**  
Istanbul, Turkey

**KLEIBERIT do Brasil Comércio de Adesivos e Vernizes Ltda.**  
Curitiba, Brasil

**KLEIBERIT Bel**  
Minsk, Belarus

**KLEIBERIT Adhesives México S.A. de C.V.**  
Mexico City, Mexico



The KLEIBERIT product range enables us to deliver to recognised companies worldwide in the wood, plastics and metal industries and could also fulfil your requirements for:

600 employees  
60 000 tons of adhesive output  
per annum

1. Solvent-free dispersions
2. Hotmelts (PUR, EVA, Polyamide, Polyolefin, Polyester)
3. Contact adhesives
4. Hotmelts for the wood, building and automotive industry
5. Two component PUR and epoxy systems
6. Foams and sealants
7. Solvent based adhesives



**KLEBCHEMIE**  
M. G. Becker GmbH & Co. KG  
Max-Becker-Str. 4  
76356 WEINGARTEN  
GERMANY  
Phone: +49 7244 62-0  
Fax: +49 7244 700-0  
Email: info@kleiberit.com

[www.kleiberit.com](http://www.kleiberit.com)  
Competence PUR