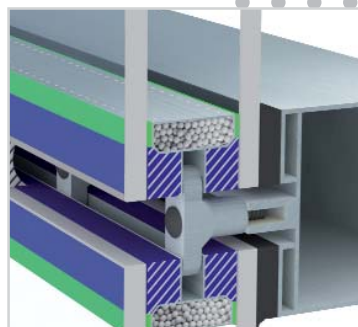
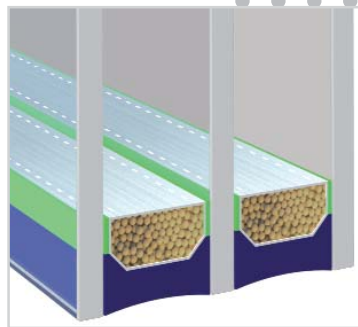


FROM ONE SOURCE

# ADHESIVES AND SEALANTS FOR THE GLASS INDUSTRY



# GLASS

## Success is our philosophy

We take the progressive way into the future - with partners, who are looking for success. Partners who are strong enough to meet the requirements of the market. Partners who are creative in building their own market. With our brand and our outstanding service our partners are always one step ahead.

We take the progressive way into the future - we offer you the widest product range in sealants and adhesives, as well as the most efficient Warm-Edge-Systems in the market.

We also offer the complete product range for BIPV (Building Integrated Photovoltaics).

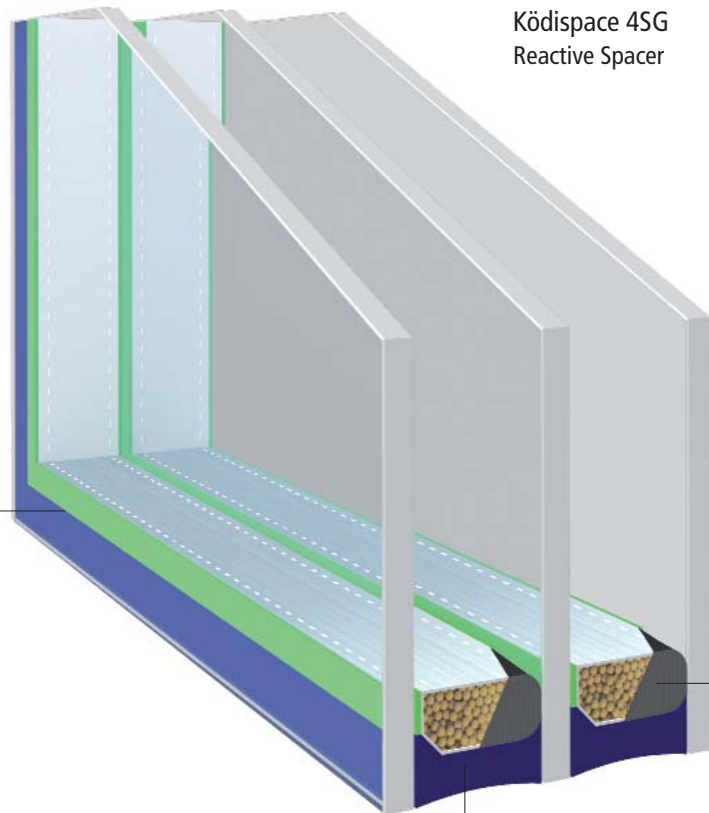
KÖMMERLING - We are the brand with the philosophy to do much more for you than others. Be part of a team that offers not only high quality adhesives and sealants but also individual consulting service and support.

KÖMMERLING CHEMISCHE FABRIK GMBH - a bright prospect for you.



# IN DETAIL

GD 115  
GD 115 grey  
Naftotherm BU-S  
Polyisobutylene (PIB)



GD 116  
Naftotherm M 82  
PS 200  
2-part Polysulfide

GD 823 N  
1-part IG-Silicone

GD 677  
GD 677 NA  
2-part Polyurethane

GD 920  
2-part IG-Silicone

ISOMELT  
Hotmelt

Ködiglaze S  
2-part SG-Silicone

## Warm-Edge-Systems

Ködimelt TPS  
Thermoplastic Spacer

Ködispace 4SG  
Reactive Spacer



## SEALANTS FOR THE PRIMARY SEAL POLYISOBUTYLENE

### GD 115

Polyisobutylene

- Extremely low moisture vapour and gas transmission rate
- Good adhesion to glass and spacer bars
- Also available as pre-extruded tape
- Approved to EN 1279

### GD 115 grey

Polyisobutylene

- Designed to seal gas filling holes

### GD 115 S

Polyisobutylene

- Primary seal for flexible spacer bars
- Good adhesion to glass and spacer bars

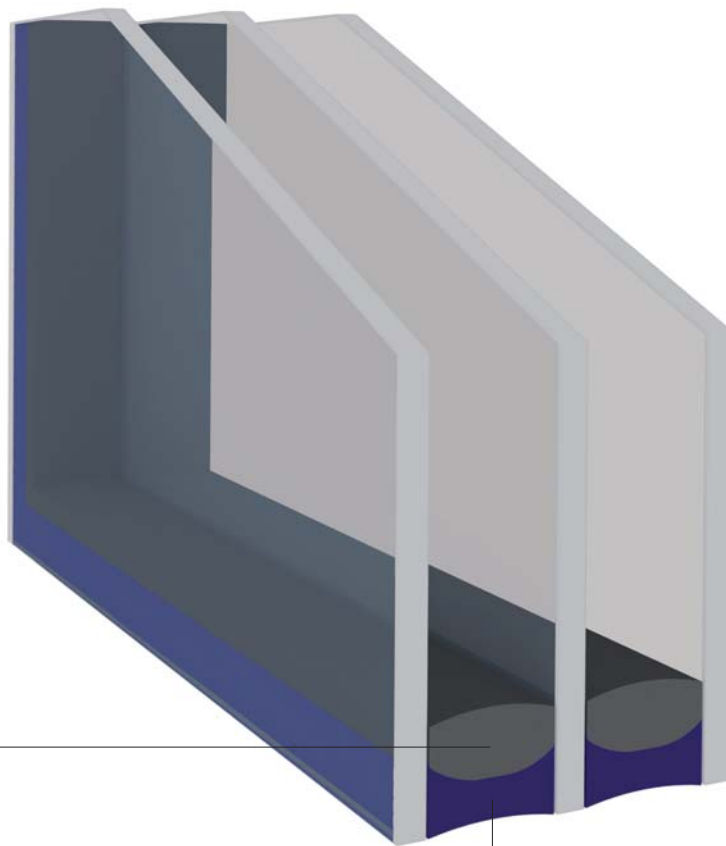
### Naftotherm BU-S

Polyisobutylene

- Extremely low moisture vapour and gas transmission rate
- Good adhesion to glass and spacer bars
- Also available as pre-extruded tape
- Approved to EN 1279



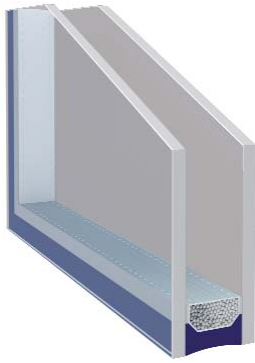
# KÖDIMELT TPS WARM-EDGE-SYSTEM



Ködimelt TPS  
Thermoplastic Spacer

- Ködimelt TPS  
Thermoplastic Spacer with integrated desiccant, replaces  
the spacer, primary sealant and desiccant
- Excellent psi-values
  - “Warm Edge”
  - High productivity
  - Virtually unlimited shapes
  - Spacer width from 1 mm to 20 mm
  - Fast wet out to glass
  - Extremely low moisture vapour and gas transmission rate
  - High flexibility and long service life
  - Also useful in the manufacture of resin laminates
  - Approved to EN 1279

GD 116  
2-part Polysulfide



## SEALANTS FOR THE SECONDARY SEAL POLYSULFIDE / POLYURETHANE

The following secondary sealants are approved to EN 1279

### GD 116

2-part Polysulfide

- Low moisture vapour transmission rate, good gas retention
- Excellent processing properties
- Tolerant of mix ratio deviations of up to  $\pm 20\%$
- Wide adhesion range
- Approved by CEKAL

### Naftotherm M 82

2-part Polysulfide

- Low moisture vapour transmission rate, good gas retention
- Excellent processing properties
- Tolerant of mix ratio deviations of up to  $\pm 20\%$
- Wide adhesion range

### PS 200

2-part Polysulfide

- Low moisture vapour transmission rate, good gas retention
- Excellent processing properties
- Tolerant of mix ratio deviations of up to  $\pm 20\%$
- Wide adhesion range

### GD 677

2-part Polyurethane

- Low moisture vapour transmission rate, good gas retention
- Fast adhesion development
- Very good adhesion to many kinds of plastics
- Good processing properties
- Approved by CEKAL

### GD 677 HM

2-part Polyurethane for the manufacturing of Heat-Mirror™ insulating glass units

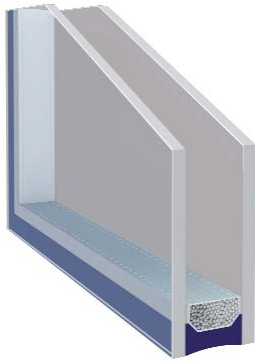
- High strength and elasticity

### GD 677 NA

2-part Polyurethane mercury free

- Low moisture vapour transmission rate, good gas retention
- Fast adhesion development
- Very good adhesion to many kinds of plastics
- Good processing properties





## SEALANTS FOR THE SECONDARY SEAL SILICONE / HOTMELT

The following secondary sealants are approved to EN 1279

### GD 920

2-part IG-Silicone

- Excellent UV resistance
- High modulus
- High temperature resistance from -40 °C to +150 °C
- ETA 08/0004
- SNJF VI-VEC

### GD 823 N

1-part IG-Silicone

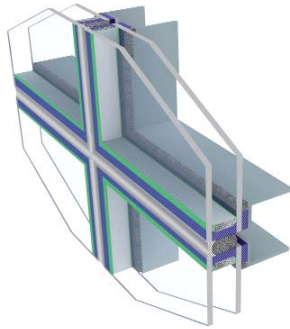
- Excellent UV resistance
- High temperature resistance from -40 °C to +140 °C
- Easy to process, low investment in plant and equipment

### Isomelt

Hotmelt / Thermoplastic sealant

- Very low moisture and gas transmission rate
- Easy to melt
- Processing temperature +150 °C to +180 °C
- Cost effective: no purging or flushing losses
- No waste disposal issues





## ADHESIVES AND SEALANTS FOR STRUCTURAL GLAZING



### Ködiglaze S

2-part Structural Glazing Silicone

- Excellent UV resistance
- High modulus
- High temperature resistance from -40 °C to +150 °C
- ETA 08/0286
- SNJF VEC and VI-VEC
- Approved to EN 1279 part 2 + part 3

### Ködispace 4SG

Reactive Spacer / Warm-Edge-System

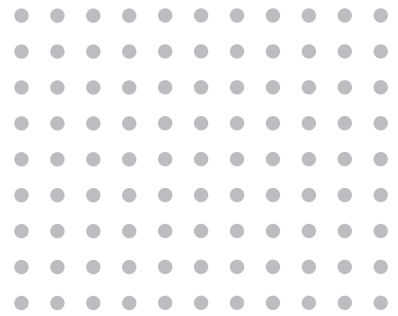
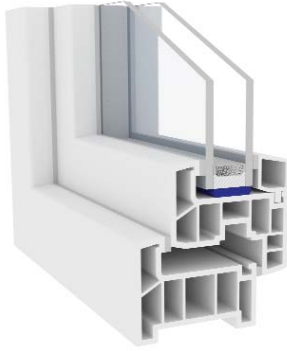
- Optimum adhesion to glass and silicone secondary sealant due to additional chemical bonding
- Very low water vapour transmission rate and gas permeability
- Low thermal conductivity
- Approved to EN 1279 part 2 + part 3 in combination with GD 920 or Ködiglaze S
- Proven compatibility with KÖMMERLING SG-Silicones approved to ETAG 002

### GD 826 N

Weather sealant

1-part Alkoxy-Silicone for the sealing of curtain walling, inclined glazing and roof glazing

- Neutral curing and odourless
- Very good weathering resistance
- Excellent UV resistance
- High temperature resistance from -40 °C to +140 °C
- Meets the highest requirements of DIN 18 545 part 2, group E



## ADHESIVES AND SEALANTS FOR DIRECT GLAZING

### Ködiglaze P

2-part Polyurethane adhesive for rebate bonding

- Specially developed for the bonding of insulating glass units into the sash of the window
- Formulation and properties specially adapted to insulating glass secondary sealant
- Very good weathering and temperature resistance
- Optimum stability and flow behaviour
- Excellent resistance to creep
- Available as 1- or 2-part system



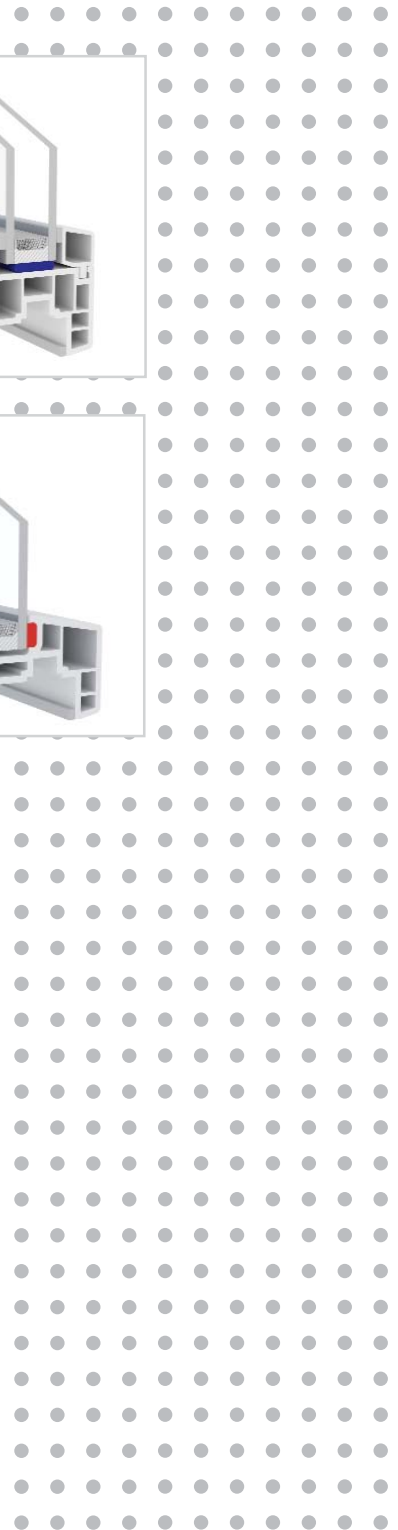
### Ködiglaze SDG

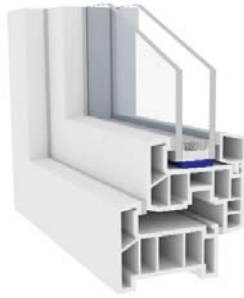
2-part Silicone adhesive for overlap bonding

- Specially developed for the bonding of insulating glass units into the sash of windows
- Optimum pot life / curing ratio
- Optimum stability and flow behaviour
- Very good UV, weathering and temperature resistance
- High strength and elasticity
- Excellent resistance to creep



The Direct Glazing product range is completed by our Ködiglaze Primers and Cleaners.





## ADHESIVES AND SEALANTS FOR ANTI-INTRUDER GLAZING

With Ködiglaze P and Naftotherm M82 KÖMMERLING offers established and proven products for the bonding of IG units for anti-intruder glazing.

### Ködiglaze P

- 1-part Polyurethane adhesive
- Specially developed for rebate bonding
- Formulation and properties specially adapted to insulating glass secondary sealants
- Available in 300-ml cartridges and 600-ml sausages

### Naftotherm M 82

- 2-part Polysulfide sealant
- Very good adhesion to glass and metal surfaces
- Available in 420-ml mixing cartridges



## KÖDISIL N GLAZING SILICONE

### Ködisil N

- 1-part Silicone sealant for glazing applications and expansion joints
- Good weathering, ageing and temperature resistance from -40 °C to +160 °C
- Neutral curing
- Contains fungicide
- Fulfils the requirements of DIN 18545, part 2, group E
- Overpaintable according to DIN 52 452, part 4



# AUXILIARIES

## LUBRICANTS / CLEANERS / FLUSHING AGENTS

### Köralub PS

Lubricant for Polysulfide sealants

- For sealings, plungers and cylinders of mixing and dispensing equipment
- Reduces wear and tear

### Köralub SI

Lubricant for Silicone sealants

- For sealings, plungers and cylinders of mixing and dispensing equipment
- Reduces wear and tear
- Reduces hardening of Silicones curing by humidity

### Köralub PUR/POP

Lubricant for Polyurethane and MS-Polymer sealants

- For sealings, plungers and cylinders of mixing and dispensing equipment
- Reduces wear and tear
- Reduces hardening of materials curing by humidity

### Körasolv PU 677

Purging and cleaning agent for GD 677 Polyurethane sealants

- For cleaning mixing and dispensing equipment in insulating glass applications

### Körasolv SI

Purging and cleaning agent for 2-part Silicone sealants

- For cleaning mixing and dispensing equipment in solar and insulating glass applications
- Dissolves cured and uncured Silicone sealants

### Körasolv GL

- For cleaning and degreasing of plastic, metal and glass surfaces
- For removing uncured sealant and adhesive residues from tools and equipment
- As pre-treatment prior to bonding with KÖMMERLING adhesives and sealants



# KÖMMERLING – MORE THAN A SEALANT

## Our philosophy ...

### ... more research and development!

We have the solutions for tomorrow's requirements today.

### ... more products!

We have the widest product range in the market.

### ... more logistics!

We help to save your time.

### ... more support!

Our Technical Service Department brings you peace of mind.

### ... more service!

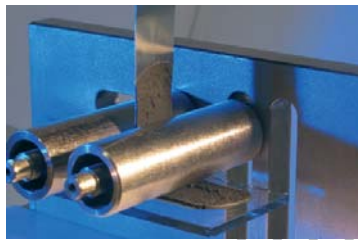
We are there when you need us.

### ... more communication!

We are active in building-up your market.

### ... more quality!

We offer you high performance insulating glass sealants.



## KÖMMERLING

KÖMMERLING CHEMISCHE FABRIK GMBH

Kömmerling Chemische Fabrik GmbH  
Postfach 2162  
D-66929 Pirmasens  
Germany  
0049 6331 562283 phone  
0049 6331 562618 fax  
e-mail: dichtstoffe@koe-chemie.de  
www.koe-chemie.de

Kommerling UK Ltd.  
27 Riverside Way,  
Uxbridge Middlesex UB8 2YF  
Great Britain  
0044 1895 465-600 phone  
0044 1895 465-617 fax  
e-mail: enquiries@kommerlinguk.com  
www.koe-chemie.com

Kömmerling Chimie S.à.r.l.  
7. Rue des Corroyeurs  
F - 67200 Strasbourg  
France  
0033 388 0252-00 phone  
0033 388 0252-18 fax  
e-mail: dichtstoffe@koe-chemie.de  
www.koe-chemie.fr

ADCO Products Inc.  
4401 Page Avenue  
Michigan Center MI 49254  
USA  
001 800 248-4010 phone  
001 517 764-6697 fax  
e-mail: info@adcocorp.com  
www.adcoglobal.com