

## LONG TIME ESTABLISHED ADHESIVES AND SEALANTS FOR TOUGH JOBS

Driven by our commitment to sustainable products, Kisling contributes significantly to a sound balance between functionality, health protection and occupational safety, also in your enterprise.

Kisling adhesives that are exempt from hazard pictograms have for 20 years been in successful operational use with customers around the globe.

The over 20 adhesives with „white“ safety data sheets are fully up to highest industrial quality and performance standards.

### Compelling reasons for using adhesives with a „white“ safety data sheet

- Increased health and safety at the workplace
- Minimization of skin irritations and allergies
- Reduction in incidents of workers on sick leave
- Reduced environmental footprint
- Extensive range of products for a wide variety of applications
- Suitable solutions for demanding applications

## THE KISLING SUSTAINABILITY LABEL

All our hazard-free adhesives and sealants bear the Kisling sustainability label. This label stands for highest quality, performance and sustainability in all phases of the product life cycle, from purchase to production and manufacturing to disposal.



**Kisling | ergo®**  
BONDING . SEALING . ENCAPSULATION

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## Hazard marking-free adhesives and sealants

The use of adhesives and sealants is not risk-free for one's health. Reactive adhesives and sealants contain substances that may cause skin irritation and allergic skin reactions. Therefore, their use requires special precautions in the field of occupational safety. In all countries, employers are required to comply with the national laws on occupational safety. The European regulation 89/391/EEC is in reference to these duties in article 6.

20 years ago Kisling made the strategic decision to gear new product developments towards health-friendly adhesives. By implementing this development strategy, Kisling has taken a leading position in carrying a comprehensive adhesive product range with „white“ safety data sheets. These products are free of hazard pictograms.



**We care for health and safety**

## ADHESIVES WITHOUT ANY HAZARD LABELLING



### Threadlockers

ergo.<sup>®</sup> threadlockers for fastening, securing and sealing threaded connections. Withstands vibrations and shock loads as well as constant mechanical loads. Fills the thread completely and prevents corrosion.

**Products:** 4003, 4050, 4052, 4100, 4101



### Hydraulics & pipe thread sealants

ergo.<sup>®</sup> threadlocking agent for leakproof and pressure-resistant threaded pipe connections. The adhesive film is resistant against vibrations and to common industrially used liquids and gases. Available in various viscosities and strengths.

**Products:** 4202, 4203, 4205, 4207, 4209, 4212



### Flange sealants

ergo.<sup>®</sup> instant gaskets for surface and flange sealing. Fit flanges or casings of any shape. Ideal safety against vibration and corrosion. High resistance against industrial gases, oils and other liquids.

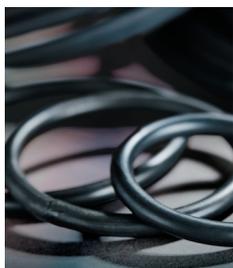
**Products:** 4252, 4253, 4254



### Retaining compounds

ergo.<sup>®</sup> retainer for high-strength bonding of cylindrical components such as bearings, sleeves, bushings, gears, pulleys together with shafts and housings. Due to its gap bridging properties, the adhesive is also suitable for use with fitting tolerances. Good resistance against acids, alkalis and high temperatures.

**Products:** 4301, 4401



### Cyanoacrylate instant adhesives

ergo.<sup>®</sup> instant adhesives ensure fast and durable bonding of metals, plastics, elastomers, wood, plaster, stone and ceramics. They provide high impact resistance, flexibility as well as resistance to water and air humidity and many organic solvents. Optimal curing at room temperature. Solvent-free.

**Products:** 5901, 5922, 5923

ergo. <sup>®</sup> Anaerobic adhesives	Strength	Colour	Viscosity [mPas]
<b>4003 Threadlocker</b>	low	purple	1 000
<b>4050 Threadlocker</b>	medium	blue	150
<b>4052 Threadlocker</b>	medium	blue	2 200 tx
<b>4100 Threadlocker</b>	high	red	1 500 tx
<b>4101 Threadlocker</b>	high	green	700
<b>4202 Hydraulic sealant</b>	medium	brown	600
<b>4203 Hydraulic sealant</b>	low	violet	17 000 tx
<b>4205 Pipe sealant</b>	low	white	17 500 tx
<b>4207 Pipe sealant</b>	medium	yellow	23 000 tx
<b>4209 Pipe sealant</b>	high	red	6 500
<b>4212 Pipe sealant</b>	low	white	240 000 tx
<b>4252 Surface sealant</b>	low	green	20 000 tx
<b>4253 Surface sealant</b>	medium	orange	34 000 tx
<b>4301 Impregnating agent</b>	medium	green	40
<b>4401 Retaining compound</b>	medium	yellow	500

ergo. <sup>®</sup> RTV Silicones MEKO-free	Colour	Viscosity [mPas] (Shear rate 10s <sup>-1</sup> )	Temperature range °C
<b>3110 RTV Silicones</b>	black	70 000	-60 to +260
<b>3120 RTV Silicones</b>	red	70 000	-60 to +315
<b>3130 RTV Silicones</b>	blue	70 000	-60 to +260
<b>3140 RTV Silicones</b>	colourless	20 000	-60 to +260
<b>3160 RTV Silicones</b>	grey	70 000	-60 to +260

ergo. <sup>®</sup> Cyanoacrylate instant adhesives	Colour	Viscosity [mPas]	Application range °C
<b>5380 2K Cyanoacrylate instant adhesive flexible</b>	colourless	-	-55 to +80
<b>5901 Cyanoacrylate instant adhesive</b>	colourless	<10	-30 to +100
<b>5922 Cyanoacrylate instant adhesive</b>	colourless	80	-30 to +100
<b>5923 Cyanoacrylate instant adhesive</b>	colourless	1000	-30 to +100

\* Curing time [s] according to factory standard (average value, if indicated)

Break loose torque Nm	Application temperature range °C	Package sizes/ gram
>10	-55 to +150	10/50/250
>15	-55 to +150	50/250
>20	-55 to +150	10/50/250
>20	-55 to +150	50/250
>25	-55 to +150	10/50/250
>14	-55 to +150	50/250
>2	-55 to +150	50/250
>5	+200	50/250
>10	-55 to +150	50/250
>25	+150	50/250
>4	-55 to +150	50/250
>6	-55 to +150	50/250
>8	-55 to +150	50/250
10	-55 to +150	50/250
>8 N/mm <sup>2**</sup>	-55 to +150	50/250

Shore-A-hardness (DIN 53505)	Density [g/cm <sup>3</sup> ]	Package sizes/ ml
30	1,25	310
26	1,25	310
24	1,25	310
15	1,05	310
26	1,25	310

Curing time* on aluminum	Curing time* on SBR	Package sizes/ gram
90	~60 (PC)	10
90	~10	20/50/500
100	~20	20/50/500
100	~25	20/50/500

\*\* value corresponds to the compression shear strength [N/mm<sup>2</sup>]