



**ergo.<sup>®</sup> adhesives and sealants**  
for electric motors



# ergo.® adhesives for electric motors

Rational manufacturing, weight reduction and a high product safety standard – all of these are on the wish list of producers of small and medium-sized electric motors for fans, windshield wipers, seat and mirror settings, window regulators, etc. Kislung ergo.® two-component structural adhesives in combination with ergo.® one-component anaerobic adhesives provide solutions that meet your needs.

## Product range

### Adhesives used in electric motor assembly

#### Structural adhesives used to attach/bond magnets

ergo.® 1039 with ergo.® 1090	NoMix-system Handling strength reached after about 30 seconds
ergo.® 1315	Initial cure reached after 1–2 minutes Handling strength reached after 5–6 minutes
ergo.® 1320	Initial cure reached after 2–3 minutes Handling strength reached after 5–6 minutes





#### 1-component silicones for sealing housings and cable ducts

ergo.® 3110	curing, non corrosive Skin forms after 5–10 minutes Elongation at break about 500 % Service temperature range –60 °C to +260 °C
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#### Anaerobic threadlockers for nuts and stud bolts

ergo.® 4052	NSF ANSI 61, FDA P1, DVGW, KTW approval  Can be removed for repairs Low thread friction coefficient
ergo.® 4100	NSF ANSI 61, FDA P1  Difficult to remove Low thread friction coefficient



#### Anaerobic flange sealant for flange joints

ergo.® 4253	NSF ANSI 61, FDA P1  Fast curing Medium strength
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# Applications

- Bonding of rotor bodies and commutator systems to shafts using ergo.® anaerobic retaining compounds and special ergo.® epoxy resins
- Bonding of shaft bearings with ergo.® anaerobic bearing retainer adhesives
- Attach gears to drive shafts using ergo.® anaerobic retaining compounds
- Fix coil wire with ergo.® two-component epoxy resins or modified acrylic adhesives
- Bonding of permanent magnets to housings or shafts using ergo.® two-component no-mix products or ergo.® methacrylates and ergo.® epoxides
- Locking of screws and stud bolts with ergo.® anaerobic threadlockers
- Sealing of housings with ergo.® anaerobic flange sealants or ergo.® neutral curing silicones
- Potting of connectors or components with ergo.® epoxy resins or ergo.® two-component addition-curing silicones

# Advantages





- + Full form closure and adhesive bond
- + No vibration noise
- + Corrosion resistant
- + Resistant against chemicals and humid conditions
- + Universal

## Anaerobic retaining compounds used to secure bearings

ergo.® 4401	Can be removed Specifically formulated for bearings that need to be changed
ergo.® 4430	NSF ANSI 61, FDA P1  Difficult to remove Bearings on shafts



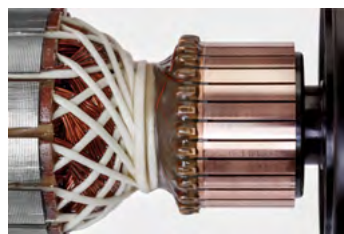
## Anaerobic retaining compound used to bond shafts to hubs

ergo.® 4453	NSF ANSI 61, FDA P1, DVGW, BAM (+60 °C/ 25 bar with pure oxygen), KTW approval     High strength Suitable for temperatures up to +175 °C
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## Epoxy resin putty for potting wires, cables, connectors and switching elements

ergo.® 7420	Good flow properties Universal adhesion profile
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For information on the full range of Kisling products, please visit:

[www.kisling.ch/en/download-center/flyers-brochures](http://www.kisling.ch/en/download-center/flyers-brochures)





You will find information on applications, technical information, all certificates and individual approvals at:  
[www.kisling.ch/en/download-center](http://www.kisling.ch/en/download-center)

If you require specific information, please contact our Customer Service Center:  
+41 58 272 02 72 or [customerservice@kisling.com](mailto:customerservice@kisling.com)

Our current business terms and conditions apply. Always refer to the latest (most recently issued) relevant local product data sheet and material safety data sheet prior to using the product and processing.

## Kisling. Secure connections any time.

Kisling AG, Wetzikon, founded in 1862, is one of the world's leading manufacturers of adhesives and sealants. Covering the entire process from development and manufacture through to support, Kisling offers everything under one roof. As an experienced developer, producer and solutions provider of adhesives and sealants, we are happy to advise and assist you with your individual projects – from complex challenges to tasks that require a quick solution. This approach produces a steady stream of new and innovative products that provide exactly what you want.



[www.kisling.com](http://www.kisling.com)

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