

BONDING +
SEALING +
ENCAPSULATING

Kisling

ergo.[®] 4505
All-4-One



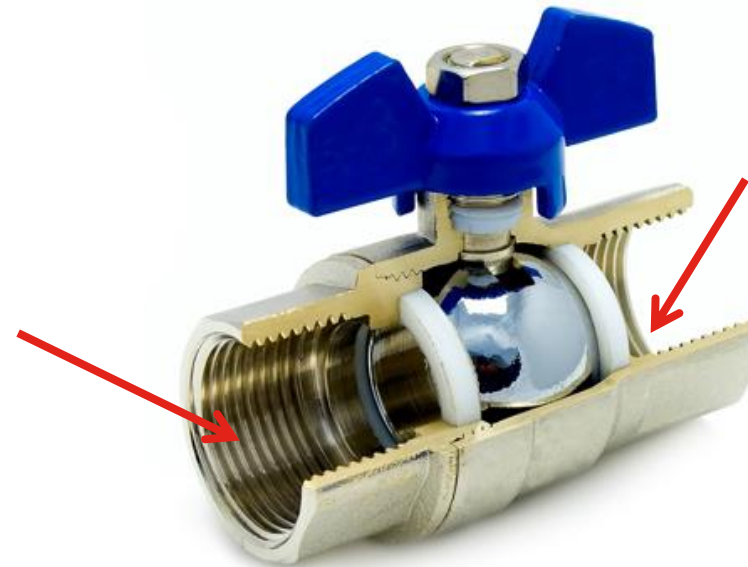
- All-in-one – Multi functional, thread locker, Pipe sealant, retaining compound
- Health friendly – no hazard pictograms on bottle, white MSDS
- Dosing cap – process control, less mess, less waste
- Thixotropic – can be applied in vertical application
- Low friction value – reliable and reproducible pre-loads
- Seals most common threaded pipe connectors immediately against pressure up to 5 bars
- Cures at lower temperatures ($> 0^{\circ}\text{C}$)

Application	Product requirements	Typical Applications
Thread locking bolts, nuts and studs	<ul style="list-style-type: none"> Resistance for dynamic loads and thermal expansion cycles Resistant against humid Resistant against a wide range of chemicals 	<ul style="list-style-type: none"> Locking bolts, nut and studs in a range of industrial applications
Sealing of threaded connections	<ul style="list-style-type: none"> Resistance against dynamic loads, pressure and thermal cycling Good gap-filling properties Sealing of common liquids and gasses 	<ul style="list-style-type: none"> Sealing against gases and liquids Sealing of hydraulic and pneumatic systems
Assembling and sealing of housings and flanges	<ul style="list-style-type: none"> Forms a seal between mating faces and parts Highly resistant against common chemicals High viscosity, self levels Extremely resistant against vibration 	<p>Assembling and sealing of</p> <ul style="list-style-type: none"> Gearboxes Water pumps Case covers

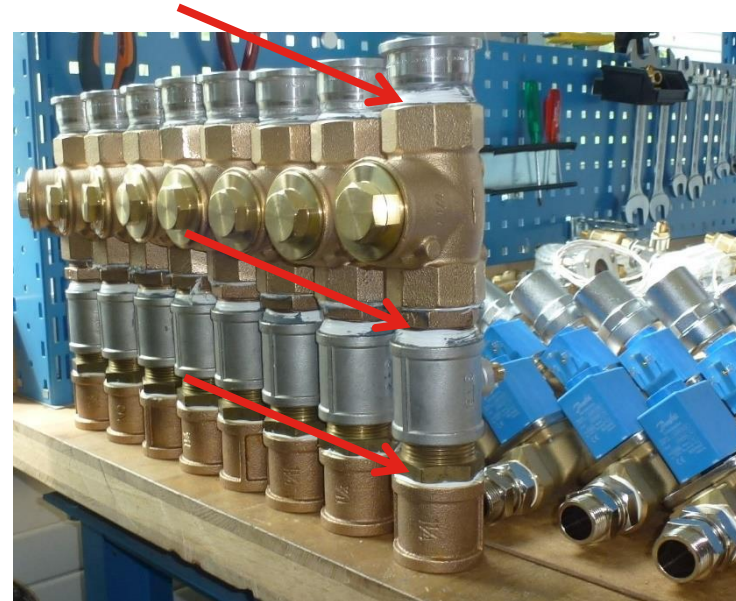
- Certified for
 - ✓ DVGW
 - ✓ NSF P1
 - NSF ANSI 61- will pass but not certified
 - KTW - will pass but not certified



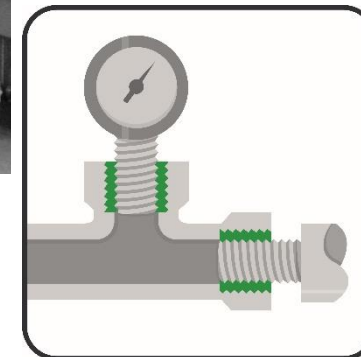
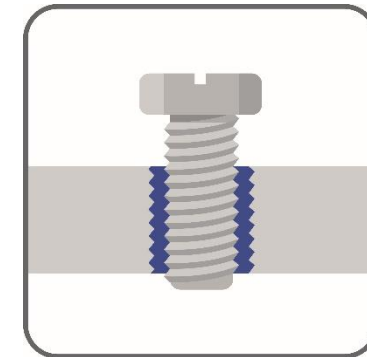
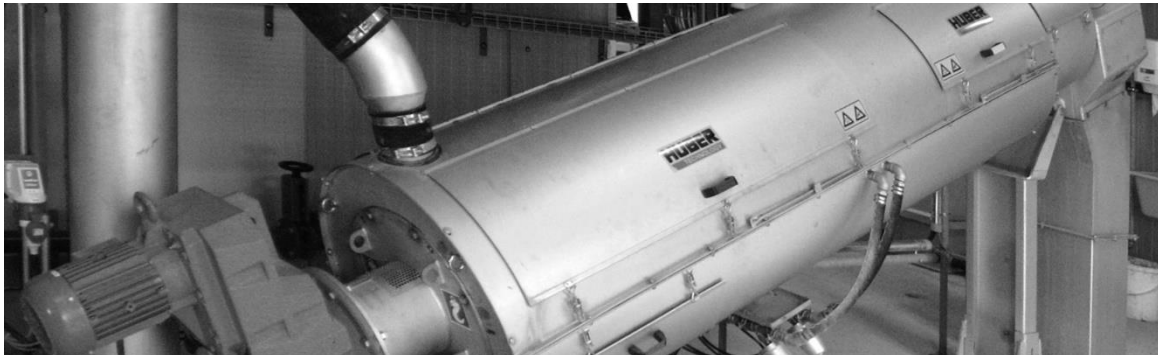
- Application: Thread locking and sealing in ball valve connections
- Benefits:
 - Thermal range: - 55°C up to +150°C
 - Certified acc. to DVGW (DIN EN 751-1) / NSF P1
 - Medium strength stays secure but still allows maintenance (high strength product for ball valves thread locking)



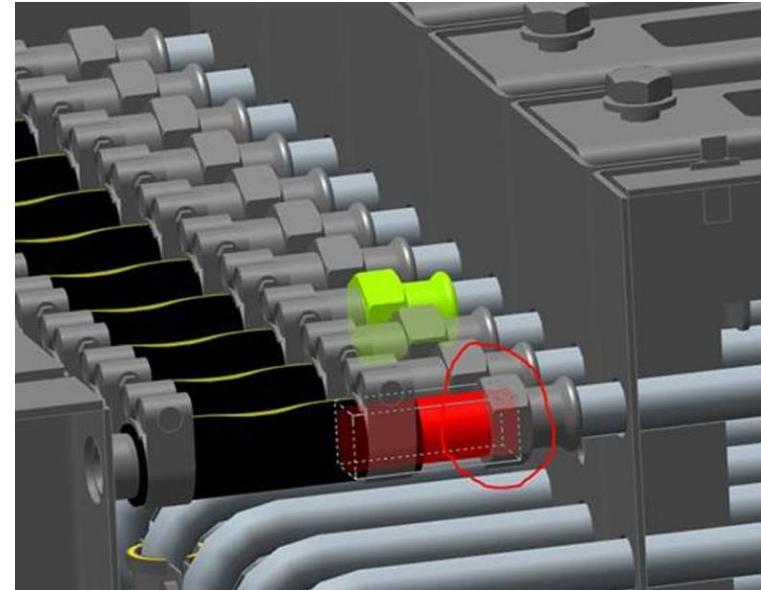
- Application: Thread sealing in heating-/cooling-devices
- Benefits:
 - Thermal range: - 55°C up to +150°C
 - Easy to use, compare to PTFE-ribbon no danger of overfilled threads
 - Certified acc. to DVGW (DIN EN 751-1) / NSF P1
 - single-component adhesive



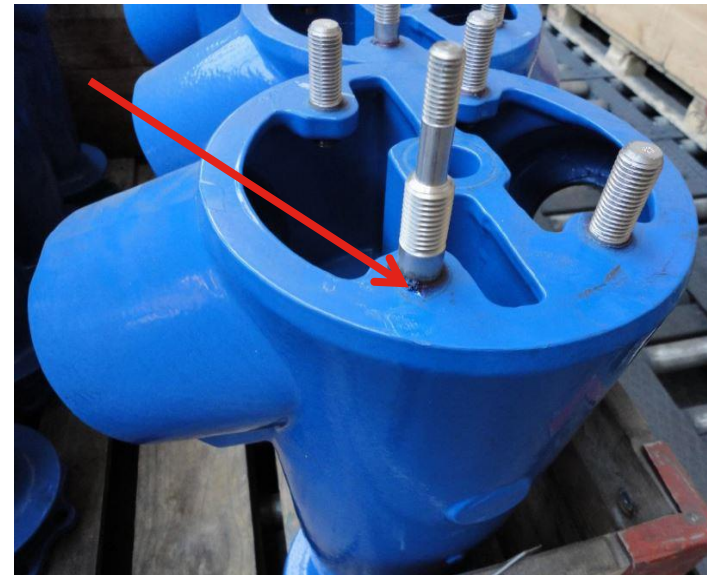
- Application: Thread locking and sealing in water treatment systems
- Benefits:
 - Thermal range: - 55°C up to +150°C
 - Certified acc. NSF P1
 - single-component adhesive, easy to apply



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|----------------|---|----|
| ▪ Application: | Sealing of stainless steel connections $\frac{3}{4}$ inch in Heat Exchanger tank version (water inside and outside the tubes, $\sim 85^{\circ}\text{C}$) | as |
| ▪ Benefits: | <ul style="list-style-type: none">• Process improvement - 4 times faster, compare old method with hemp• 75% reduction of handling costs• Thermal range: -55°C up to $+150^{\circ}\text{C}$• Certified acc. NSF P1• single-component adhesive, easy to apply | |



- Application: Medium strength locking of studs in fire hydrant and stand pipes
- Benefits:
 - Medium strength property
 - Certified acc. NSF P1
 - Easy to assemble, no change in tension, due to low friction value
 - Resistant to removal



- Application: sealing of brass valve assembly in hydrants
- Benefits:
 - Suitable for threads up to 3 inches
 - Certified acc. NSF P1
 - Bead remains in place until the final assembling
 - Medium strength allows opening for additional maintenance



The Ergo 4505 will replace all of the following Loctite products;

Loctite threadlockers 242/243/644/2440/2400

Loctite instant gaskets 574/5203/5208/5800

Loctite pipe sealants 289/577/5772/5776/5400

Loctite retainers 566/641/672

