

TECHNICAL DATASHEET

ergo.[®] 4205

(Pipe sealant with PTFE – low strength)

Description

Special grade for the sealing of conical or cylindrical pipe threads e.g. Withworth-threads according to DIN 2999 up to 3 inches. ergo.[®] 4205 cures to a flexible film. The contained PTFE powder lowers the friction. Certified acc. to DVGW (DIN EN 751-1) and NSF Standard ANSI 61 for use in commercial and residential drinking water systems not exceeding +82°C. NSF P1 listed for use in food processing area.

Advantages

- Stays in position during assembly
- Low friction grade – reliable and reproducible on-torque
- Easy disassembly (low strength)
- Solvent-free, good chemical resistance

Physical properties (liquid product)

Chemical base	Diester of Methacrylic Acid (with PTFE)
Curing System	Anaerobic curing adhesive

Shelf life	12 months at room temperature
Flash point	>100°C

Viscosity at 25°C (Brookfield RVT)	
spindle 6, 2.5 rpm	40'000 – 60'000 mPa•s
spindle 6, 20 rpm	15'000 – 20'000 mPa•s

Density	1.1 g/cm ³
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Colour	white
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Max. thread diameter:	3 inches
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Max. gap filling:	0.3 mm
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Curing properties

Measured on M10 x 20 bolt – grade 8.8 black phosphatized – nut 0.8d (no on-torque)

Initial strength after:	15 – 30 minutes
Functional strength after:	1 – 3 hours
Final strength after:	~ 12 hours

Physical properties (cured product)

Thermal range - 55 °C up to 200 °C

Measured on M10 x 20 bolt – grade 8.8 black phosphatized – nut 0.8d (5Nm on-torque)
according to DIN EN 15865

Loose-break torque: 5 – 10 Nm

Prevailing torque: 4 – 7 Nm

Shear strength (DIN EN ISO 10123) 5 – 7 N/mm²

Attention

Without any preliminary testing, the use of ergo.[®] 4205 is not recommended for threads, cut in copper or copper alloys, which have contact with hot water (>40°C).

Precautions

For your own safety, please refer to the information of the concerned MSDS and for the correct handling the “user instructions”.

The information in this data sheet is based on the results of our research and experience. However, the suggestions herein concerning the use, application, and processing of the products (collectively, „the methods“) **are non-binding recommendations only**. It is the user’s sole responsibility to determine the suitability and safety of these methods, based on the user’s particular purpose in using the products. Before relying on the reliability and safety of any parts that are bonded using the products, it is extremely important that the user test the reliability and safety of the parts that are bonded. Failure to do so could result in serious personal injury. Because of the use of the products are within the purchaser’s sole control, Kisling Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability or fitness for a particular purpose, arising from the sale or use of the products described herein. Kisling Corporation specifically disclaims any liability for consequential, incidental, or other damages of any kind, including lost profits. Kisling Corporation’s liability for damages shall not exceed the purchase price of the products used.

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