

TECHNICAL DATASHEET

ergo.[®] 1470

(Anaerobic locking and retaining adhesive – high strength)

Description

Very low viscous product, which locks bolts and nuts as well as it bonds bearings in bushes and wheels on axles.

- **Post-applying:** It is also suitable for post-applying on screws and cylindrical assemblies.
- **Fixing coils on ferrite rods:** Due to the special flowing behaviour and the excellent capillarity of ergo.[®] 1470 it may also be used together with the accelerator ergo.[®] 1471 to fix coils on ferrite rods (inductors).
- **Impregnating Agent:** Due to the very low viscosity, this product is able to penetrate into finest gaps (capillary) or micro porosity and to seal safely cast-iron parts or welded joints.

Advantages

- Fast curing (can be accelerated with activator as well)
- Resists high static shear stress conditions and dynamic loads
- Very low viscosity and very good flowing behaviour
- Heat resistant up to 180°C
- Solvent-free, good chemical resistance

Physical properties (liquid product)

Chemical base	Diester of Methacrylic Acid
Curing System	Anaerobic curing adhesive
Colour	green (fluorescent at 365nm)
Viscosity* at 25°C (Brookfield RVT, spindle 1, 100 rpm) based largely on DIN EN ISO 2555	50 – 60 mPa•s
Density	~ 1.05 g/cm ³
Max. thread diameter	M 12
Max. gap filling	0.1 mm
Flash point	> 90°C
Shelf life	12 months at < +28°C

Curing properties

Measured on M10 x 20 bolt – grade 8.8 black phosphatized – nut 0.8d (no on-torque; based largely on DIN EN 15865)

Initial strength after:	5 – 10 minutes
Functional strength after:	30 – 40 minutes
Final strength after:	3 – 6 hours

Physical properties (cured product)

Thermal range - 60 °C up to 180 °C

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

Loose-break torque: > 35 Nm

Shear strength (DIN EN ISO 10123) > 28 N/mm²

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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