

TECHNICAL DATASHEET

4115

(Thread locker – High strength and temperature resistant)

Description

High strength product for static and/ or dynamic stress. Suitable to fasten and seal bolts and nuts as well as stud bolts. Dependent on the diameter of used threads, it will be tough or impossible to lose the bonding. The product resists very good against high temperature and chemical influence.

Advantages

- Resists dynamic loads and vibrations
- Heat resistant up to 200°C
- Solvent-free, good chemical resistance

Physical properties (liquid product)

Chemical base	Diester of Methacrylic Acid
Curing System	Anaerobic curing adhesive
Shelf-life standard packaging (≤ 250 g)	12 months at room temperature
Flash point	$> 90^{\circ}\text{C}$
Viscosity at 25°C (Brookfield RVT) spindle 5, 20 rpm	8'000 – 12'000 mPa•s
Density at 25°C	1.1 g/cm ³
Colour	Red
Max. thread diameter	M 36
Max. gap filling	0.2 mm

Curing properties

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

Initial strength at 23°C	1 – 3 hours
Functional strength at 23°C	3 – 6 hours
Final strength at 23°C	12 – 24 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: > 23 Nm

Prevailing torque: > 23 Nm

Shear strength (DIN EN ISO 10123) > 25 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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