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# **TECHNICAL DATA SHEET ergo.® 4500**

# Thread Locker, medium strength

#### **Description**

Special product with low strength properties. Locks bolts against loss of tension, caused by vibration or unwitting movement. May be disassembled with normal tools

### **Physical Properties (liquid product)**

Chemical Base Diester of Methacrylic Acid

**Colour** red

**Density**  $1,04 - 1,08 \text{ g/cm}^3$ 

**Viscosity** 

Cone/plate-system @ 25°C

Cone C-50, shear rate 100s<sup>-1</sup> 700 – 1100 mPas

Max. thread diameter: M 36

Max. gap filling 0.25 mm

Flash point > 100°C

Shelf life 1 year at room temperature

## **Physical Properties (cured product)**

Measured on M10 bolts - grade 8.8 black phospated - nut 0.8d

**Functional strength after**Final strength after
8 – 12 hours
24 hours

**Loose-break torque after** 1 h @ 23°C ( $M_A = 5 \text{ Nm}$ ) 10 – 18 Nm DIN EN 15865 **Loose-break torque after 48 h** @ 23°C ( $M_A = 5 \text{ Nm}$ ) 18 – 25 Nm DIN EN 15865

Shear strength

after 48 h @ 23°C 8 – 18 N/mm<sup>2</sup> DIN 54452

Thermal range: - 55°C up to +80°C

#### **WARRANTY INFORMATION - PLEASE READ CAREFULLY**

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