TECHNICAL DATASHEET

ergo.® 4504
(ONE-4-ALL – low strength)

Product Description
Universal, low-strength, and thixotropic adhesive and sealant for metallic substrates. Covers the four main application areas of anaerobic adhesives and sealants in a single product:

- Thread locking
- Mounting of bearings in bushings
- Sealing of flange connections
- Sealing of pipe threads

Advantages
- Seals and secures in a single step
- One product – four application areas
- Low coefficient of friction – smooth assembly without friction losses
- Low strength – easy disassembly
- Solvent-free – no emissions
- 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	>100°C
Viscosity at 25°C (Brookfield RVT)	
spindle 6, 2.5 rpm	35’000 – 80’000 mPa•s
spindle 6, 20 rpm	11’000 – 21’000 mPa•s
Density	1.1 g/cm³
Colour	White
Max. thread diameter:	3 inches
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:	90 – 180 minutes
Final strength after:	~ 12 hours

Physical properties (cured product)

Thermal range	- 40 °C up to 175 °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 – 7 Nm
Prevailing torque:	4 – 6 Nm

Shear strength (DIN EN ISO 10123)	4 – 6 N/mm²

Precautions

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

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