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## TECHNICAL DATA SHEET ergo.® 4451

Retaining Compound, high strength

### Description

Very fast curing product for highest static shear strength, as well as for dynamic loads. Suitable to bond tooth wheels on axles, rotor/ stator connections in electric engines and for pulleys in belt drives. Certified acc. to **NSF ANSI 61** for use in commercial and residential potable water systems not exceeding 82° C. **NSF P1** listed for use in food processing areas.

**Note:** This is a regional approval. Please contact us for more information and clarification.

### Physical Properties (liquid product)

|  |                            |                   |
|--|----------------------------|-------------------|
| <b>Chemical Base:</b>                    | Ester of Methacrylic Acid  |                   |
| <b>Colour:</b>                           | green/ fluorescent         |                   |
| <b>Viscosity</b> at 25°C, Brookfield RVT | 2000 –3000 mPas            | spindle 3, 20 rpm |
| <b>Density</b> at 25°C:                  | 1.10 g/cm <sup>3</sup>     |                   |
| <b>Max. thread diameter:</b>             | M 36                       |                   |
| <b>Max. gap filling:</b>                 | 0.20 mm                    |                   |
| <b>Flash point:</b>                      | > 100°C                    |                   |
| <b>Shelf life:</b>                       | 1 year at room temperature |                   |

### Physical Properties (cured product)

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

|                                   |                        |           |
|-----------------------------------|------------------------|-----------|
| <b>Initial strength after:</b>    | 2 - 5 minutes          |           |
| <b>Functional strength after:</b> | 0,5 - 1 hour           |           |
| <b>Final strength after:</b>      | 2 - 4 hours            |           |
| <b>Loose-break torque:</b>        | > 25 Nm                | DIN 54454 |
| <b>Prevailing torque:</b>         | > 40 Nm                |           |
| <b>Shear strength:</b>            | > 27 N/mm <sup>2</sup> | DIN 54452 |
| <b>Thermal range:</b>             | - 55°C up to +150°C    |           |

#### WARRANTY INFORMATION - PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that KISLING products are safe, effective, and fully satisfactory for the intended end use. KISLING sole warranty is that the product will meet the KISLING sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. KISLING specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Unless KISLING provides you with a specific, duly signed endorsement of fitness for use, KISLING disclaims liability for any incidental or consequential damages. Suggestions of uses should not be taken as inducements to infringe any particular patent.