

### **DELO-ML® 5198**

Anaerobic adhesive, easy to remove

#### **Use**

- sealing: sealing of surfaces, flanges and screw pipe connections
- screw connections: screw pipe connections
- the cured product is normally used in a temperature range of -60 °C to +150 °C; depending on the application, other limits may be more reasonable
- compliant with RoHS directive 2015/863/EU

#### **Base**

- methacrylic ester
- one-component, solvent-free

#### **Curing**

- anaerobic, i.e., by exclusion of air and under metal influence at room temperature with small gap
- the curing may be assisted by application of heat or use of activator, e.g. if the curing speed is too slow or if it comes to larger gaps
- the build-up of strength depends on the components and the geometry joined. The initial strength is achieved after just a few minutes. Significant acceleration is possible by using an activator and/or applying heat

#### **Properties**

- high-viscous, run-resistant setting
- removal from large sealing areas is difficult
- high viscous setting allows bridging of larger gaps
- reduced curing times with activator DELO-QUICK
- excellent curing even on highly passivated surfaces by activating the surfaces with DELO-QUICK
- specific low strength, removable

#### **Processing**

- the surfaces to be bonded must be dry as well as free of dust, grease and other contaminations
- DELOTHEN cleaners are recommended for the optimal preparation of bonding areas
- thread connections must be tightened well
- the adhesive is good to dispense from original containers or by means of dispensing systems suitable for anaerobic-curing adhesives

#### **Technical data**

*Color*

yellow

preferred clearance [mm]

0,05-0,1

clearance with heat or activator [mm]

up to 0,3-0,4

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Density [g/cm <sup>3</sup> ] at room temperature (approx. 23 °C)	1.1
Viscosity [mPas]	pasty
<i>Curing time until initial strength</i> [min] at room temperature (approx. 23 °C), anaerobic on zinc-phosphated screws	5 - 10
Curing time until initial strength [min] at room temperature (approx. 23 °C), with DELO-QUICK 5002 (accelerator for DELO-ML) on V2A screws	5 - 15
Curing time until final strength [h] at room temperature (approx. 23 °C), anaerobic on zinc-phosphated screws	24
Off-torque without Mon [Nm]	5
<i>Off-torque with Mon 46 Nm</i> [Nm] ISO 10964, screw M10/8.8	44
Tensile shear strength St/St [MPa] DIN EN 1465, sand-blasted	approx. 3
Compression shear strength [MPa] according to ISO 10123	5
Compression shear strength after 1 h [MPa] according to ISO 10123	approx. 0.3
Chemical resistance	very good
Storage life In unopened original container up to 200 ml at room temperature (0-25 °C)	12 months

## **Instructions and advice**

### **General**

The data and information provided are based on tests performed under laboratory conditions. Reliable information about the behavior of the product under practical conditions and its suitability for a specific purpose cannot be concluded from this. It is the customer's responsibility to test the suitability of the product for the intended purpose by considering all specific requirements. Type and physical and chemical properties of the materials to be processed with the product, as well as all actual influences occurring during transport, storage, processing and use, may cause deviations in the behavior of the product compared to its behavior under laboratory conditions. The data and information provided are therefore no guarantee for specific product properties or the suitability of the product for the intended purpose.

Nothing contained herein shall be construed to indicate the non-existence of any relevant patents or to constitute a permission, encouragement or recommendation to practice any development covered by any patents, without permission of the owner of this patent.

All products provided by DELO are subject to DELOs' General Terms of Business. Verbal side agreements are not permitted. This document is subject to change.

### **Instructions for use**

The instructions for use of DELO-ML are available on: [www.DELO.de](http://www.DELO.de). We will be pleased to send them to you on demand.

### **Occupational health and safety**

see material safety data sheet

### **Specification**

The properties in italics are part of the specification. Ranges with clear limits are defined for them and others, where applicable. In the course of the QA test, each batch is tested for these properties and the maintenance of the limits is ensured. The measuring methods used can deviate from those specified in the data sheet. Details can be found in the QA test report.