

## Technical Product Data Sheet for Grade 12-22

### Threadlocking low strength

Product Description: **VARYBOND®** Grade 12-22 universal product with medium viscosity. Suitable for threaded joints, which shall be removable later on and for small threads. Especially developed screws with length of 2D.

Physical Properties: **Liquid Product**

Chemical base:	<b>Ester of Methacrylic Acid</b>
Colour:	<b>purple / fluorescent</b>
Viscosity mPas (25°C Brookfield RVT spindle rpm 2/20):	<b>800 – 1200</b>
Density:	<b>1.09 g/cm<sup>3</sup></b>
Max. thread diameter:	<b>M36</b>
Max. gap filling:	<b>0.20 mm</b>
Flash point:	<b>&gt; +100°C</b>
Shelf life:	<b>12 months at room temperature</b>

Physical Properties: **Cured Product**

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

Initial strength after:	<b>15 - 30 minutes</b>
Functional strength after:	<b>1 - 3 hours</b>
Final strength after:	<b>5 - 10 hours</b>
Loose-break torque:	<b>4 - 7 Nm (M10)</b>
Prevailing torque:	<b>1 - 3 Nm (M<sub>2</sub>10)</b>
Shear strength (DIN 54 452):	<b>3 - 5 N/mm<sup>2</sup></b>
Thermal range:	<b>- 55°C up to +150°C</b>

The details from this technical product information are based upon our current position of our knowledge, experiences and the legal requirements. They describe the utilization of our products under normal operating conditions, without the guaranteeing of any laid down characteristics. They do not release the user from the necessity of own examination and precautionary measures. Our guarantee warrants for the quality of the product, but does not cover the success and effects caused by its utilization, which are dependant upon a multitude of factors.

**Version 9.10.2001**  
Type 12-22 GB

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