

## TECHNICAL INFORMATION

### BEST-MK 4433

**BEST-MK 4433** is a one-component, DVGW-approved, solvent free, super strength and high viscous anaerobically curing structural adhesive based on di-methacrylate-ester.

**BEST-MK 4433** is especially recommended for fastening of coaxial components, e. g. bearings, bushings and shaft-hub-connections. Due to its high viscosity it even bridges uneven areas. Other fields of application are the securing and sealing of threaded connections as well as planar bonding of metals.

**BEST-MK 4433** combines extremely high strength with very good temperature and chemical resistance. The strength values achieved in threaded connections might cause damage to screw or thread during disassembly. Even though the product is of high viscosity it allows a good, run-resistant distribution on the adherents.

#### Product characteristics

<b>Chemical Type</b>	<b>Dimethacrylate ester</b>
<b>Curing system</b>	<b>anaerobic</b>
<b>Colour</b>	<b>green</b>
<b>Strength</b>	<b>super high</b>
<b>Viscosity (Brookfield) Sp.4/100 RPM</b>	<b>7.000 mPas</b>
<b>Density (DIN EN 542)</b>	<b>1,1 x 10<sup>3</sup>kg/m<sup>3</sup></b>
<b>Thread sizes up to</b>	<b>M36</b>
<b>Bonding gap</b>	<b>0,1 – 0,3 mm</b>
<b>Thread friction</b>	<b>0,17</b>
<b>Shelf life</b> Storage in unopened container at 10 to 23°C	<b>2 Years</b>
<b>Shelf life</b> Storage in unopened container at 8 to 16°C)	<b>3 months</b>

#### Curing time at 23°C

<b>Fixture time</b>	<b>1 - 7 min.</b>
<b>Functional strength</b>	<b>1 - 2 hrs.</b>
<b>Total curing time</b>	<b>6 hrs.</b>

**Strength of cured Material**

Compression/shear strength (DIN EN 15337)	@23°C 34 N/mm <sup>2</sup> @200°C 21 N/mm <sup>2</sup>
Tensile shear strength (DIN EN 1465)	15 N/mm <sup>2</sup>
Breakloose Moment (DIN EN 15865)	48 Nm
Breakaway Moment (DIN EN 15865)	60 Nm

**Temperature range**

thread locking	-60°C to +175°C
bonding of coaxial parts	-60°C to +220°C

**Chemical/Solvent Resistance (DIN 53287 - test in accordance to DIN EN 15865) in % of the initial strength after 1000h Chemical absorption**

Water/Glycol at 87°C	90%
Motor Oil (MIL-L-46 152) at 125°C	100%
Unleaded Gasoline at 23°C	100%
Brake fluid at 23°C	100%
1,1,1 Trichlorethane at 23°C	100%
Ethanol at 23°C	100%
Acetone at 23°C	95%

For resistance against other chemicals, please check the chemical resistance listing.

**Industrial health and safety standards**

Hazard Statements: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.

**General**

The data and information above correspond to the current know-how of BEST-Klebstoffe GmbH & Co.KG. Our information and data have been developed from laboratory tests and extensive practical experience. They shall not release any customer from its duty to perform receiving inspections and to do test runs in view of any intended use, nor do they constitute a representation that any product will have specific properties or be suitable for any definite use. BEST-Klebstoffe GmbH & Co. KG reserves the right to change the contents of this document as necessary.

Revision: 180418  
Revision date: 18.04.2018