



TECHNICAL INFORMATION

BEST-MK 4423

BEST-MK 4423 is a one-component, solvent free anaerobically curing adhesive based on di-methacrylate ester. It is of super high strength, low viscous and oil-tolerant. This product is a version of our approved joining **BEST-MK 4422** and is not classified as dangerous according to regulation (EC) 1272/2008.

BEST-MK 4423 is especially suitable for fastening of coaxial adherends, e. g. bushings, bearings and shaft-hub-connections. Another field of application is the securing and sealing of threaded connections and - in combination with the use of our activator BEST-Aktiv A – the joining of rubber with metal, metal with glass or ceramics with metal.

BEST-MK 4423 combines extremely high strength with very good temperature and chemical resistance. Even on not thoroughly cleaned joining surfaces **BEST-MK 4423** features very high strength. Due to the achieved strength qualities of the product in threaded connections disassembly might cause damage to the screw or thread. Due to its low viscosity **BEST-MK 4423** shows good capillary action and provides a good distribution on the adherends.

PROPERTIES (liquid product)

Chemical type	Di-methacrylate-ester
Curing system	Anaerobic
Appearance	Green
Strength class	Super strength
Viscosity (Brookfield)	200 mPas
Density (DIN 51757)	1,1 x 10 ³ kg/m ³
Thread size	Up to M12
Max. gap	0,05 – 0,15 mm
Thread friction	0,17
Shelf life <small>(Storage in unopened original container at 10°C up to 23°C)</small>	12 months
<u>Curing time @23°C</u>	
Fixture time	3 to 10 minutes
Functional strength	2 – 4 hours
Final strength	12 hours

**STRENGTH VALUES (cured product)**

Compression shear strength (DIN 54452)	
@ RT	32 N/mm ²
@ 200°C	21 N/mm ²

Breakloosemoment (DIN 54454) 45 Nm

Breakawaymoment (DIN 54454) 55 NM

TEMPERATURE RANGE

Threaded connections	-60°C – +175°C
Coaxial Components	-60°C – +220°C

CHEMICAL AND ENVIRONMENTAL RESISTANCE
(DIN 53287 – Test in accordance with DIN 54454)

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 more information on resistance against other chemicals please contact BEST-Klebstoffe.

HEALTH AND SAFETY STANDARDS

This product is not classified as dangerous according to regulation (EC) 1272/2008. General rules regarding handling of chemicals apply. For further information please see corresponding material safety data sheets.

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. It is the user's responsibility to perform receiving inspections and to determine suitability for the user's purpose of any production methods. We disclaim all warranties expressed or implied, that any product will have specific properties for a particular purpose. BEST-Klebstoffe GmbH & Co. KG reserves the right to change the contents of this document as necessary.

Revision: 130611
Revision Date: 11.06.2013