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Medium-strength screw retainer

Art. no. 0893 243 025
P. Qty.: 1

Removable screw retainer and sealing compound – one-handed dispensing system

Chemical basis	Dimethacrylic acid ester
Colour	Blue fluorescent
Density/conditions	1.12 g/cm³/ in accordance with DIN EN ISO 2811-1
Min./max. viscosity 1/conditions 1	4000-9000 mPas/at 25 °C, Brookfield RVT, spindle 3/2.5 rpm
Min./max. viscosity 2/conditions 2	1500-3000 mPas/at 25 °C, Brookfield RVT, spindle 3/20 rpm
Suitable for max. thread	M36
Max. gap-filling ability	0.25 mm
Min./max. initial strength	5-15 min
Min./max. functional strength	0.5-1 h
Min./max. final strength	1 h-3 h
Min./max. compressive shearing strength/conditions	10-20 N/mm²/in accordance with ISO 10123
Min./max. breakaway torque	15-25 Nm
Breakaway torque conditions	DIN EN 15865
Min./max prevail torque	3-8 Nm
Conditions for prevail torque	DIN EN 15865
Min./max. processing temperature	5 to 35 °C
Min./max. temperature resistance	-55 to 150 °C
Min. flashing point	100 °C
Shelf life from production/conditions	18 Month/at room temperature
Weight of content	25 g
Silicone-free	Yes
Solvent-free	Yes
Fully hardening/curing conditions	Exclusion of oxygen and contact with metal (copper or iron ions)

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Viscosity at 25 °C Brookfield (RVT/RVT/HB)	
5000-7000 mPas	Spindle rpm: 1/20
1500-2500 mPas	Spindle rpm: 3/20

Application area

For medium-strength retaining, fixing and sealing of threaded connections such as screws, stud bolts, nuts and threaded plugs, which are supposed to be detached again with normal tools. The medium-strength threadlocker is for use in the automotive and commercial vehicle industry, in metalworking and tool manufacturing, shipbuilding, mechanical engineering and engine construction, and electrical and electronics construction.

Application information

The surface must be free of oil, grease and other contaminants. Best adhesive results are achieved when the surfaces are cleaned with Metal cleaner 7063 (art. no. 0890 107 063). Observe the flash-off time!

For blind holes, apply several drops inside along the thread up to the base of the hole. For through-bores, apply several drops onto the screw where the nut will sit. For sealing applications, apply the product all around the external thread. The medium-strength threadlocker cures anaerobically, meaning that it only hardens where the adhesive has no contact with atmospheric oxygen. At the same time, the hardening speed is still influenced by the catalytic effect of metal and the gap width.

Excessive adhesive that is pressed out of the gap between the two parts will not harden and can be removed with a dry cloth or a cloth saturated with acetone cleaner (art. no. 0893 460).

For use in applications involving contact with drinking water, recommendations from the German Adhesives Association (Industrieverband Klebstoffe e.V.) must be observed:

- Use anaerobic adhesive or sealant sparingly.
- Avoid excess material or wipe away where necessary.
- In order to avoid excess adhesive inside the pipe, keep the first two turns of the thread dry. Or if this is technically not possible, at least the first turn of the external thread.
- Allow the adhesive to harden for at least 24 hours.
- Rinse the system with water before use.

Proof of performance

- NSF-tested in accordance with NSF/ANSI 61 for use in service water and drinking water
- DVGW approval, tested in accordance with DIN EN 751-1 (not permissible in domestic gas installations in Germany in accordance with DVGW TRGI 2018.)
- Conforms to the formula recommended by the German Environmental Protection Agency for use in applications which come into contact with drinking water dated 11 February 2016. If being used as a thread sealant which comes into contact with drinking water, please observe the relevant recommendations from the association of the adhesive and sealant industry.

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Notice

The following plastics can be affected in the event of prolonged exposure: ABS, celluloid, polystyrene, polycarbonate (Macrolon), PMMA (Plexiglas), polysulfone, SAN (lurane, Tyril), Vinidur, vulcanised fibre, and painted surfaces.

The usage instructions are recommendations based on the tests we have conducted and on our experience; carry out your own tests before each application. Due to the large number of applications and storage and processing conditions, we do not assume any liability for a specific application result. If our free customer service provides technical information or acts as an advisory service, no responsibility is assumed by this service except where the advice or information given falls within the scope of our specified, contractually agreed service or the advisor was acting deliberately. We guarantee the consistent quality of our products. We reserve the right to make technical changes and further develop products. Please observe the technical data sheet!

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