

TECHNICAL DATA SHEET

0893 270 025, 0893 270 050, 0893 270 250

High-strength screw retainer

Fields of application:

For securing, fastening and sealing threaded connections such as bolts, stud bolts, nuts, threaded plugs, threaded inserts, ball bearings and roller bearings which do not normally have to be detached. The high-strength screw retainer 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.

Properties:

- Ideally suited for screw connections exposed to high stresses
- Can only be removed once heated up to 300 °C
- Excellent media and thermal stability
- Prevents detachment due to vibrations or shock loads, for example
- Practical one-handed operation
- Continuously adjustable dispensing system enables dispensing to be adjusted to suit the application, and to keep consumption and costs to a minimum
- Easy to empty residual product
- Resistant to a large number of bases, gases, solvents, oils and fuels
- Silicone, solvent and oil-free

Certificates/test reports:

NSF-tested in accordance with NSF/ANSI 61 for use in service water and drinking water

Surface:

Metal

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Application:

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 times!

For pocket holes apply several drops internally along the thread up to the base of the bore hole. For through-bores apply several drops onto the screw where the nut will sit. For sealing applications apply the product all around the male thread.

The high-strength screw retainer cures anaerobically, meaning that it only hardens where no atmospheric oxygen comes into contact with the adhesive. At the same time, the hardening speed is still being 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, 0893 460 001).

Technical data:

Chemical basis	Methacrylic acid ester
Colour	Green/fluorescent
Density	Approx. 1.11 g/cm ³
Max. gap filling capacity	0.15 mm
Max. thread diameter	M 25
Application temperature	+5°C to +35°C
Temperature range	-55°C to +150°C
Flash point	> 100°C
Touchable after*	5 to 15 minutes
Usable after*	1 to 3 hours
Final setting after*	3 to 6 hours
Viscosity	500–900 mPas (spindle 2, 20 rpm)
Compression shear strength* (DIN 54452)	>20 N/mm ²
Breakaway torque* (DIN 54454)	>25 Nm (M10)
Prevailing torque*	>40 Nm (M10)
Shelf life	12 months at room temperature

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* Dependent upon the material surface used, measured against an M10 x 20 screw – quality 8.8 black phosphated – 0.8 d nut (no pre-tensioning)

Notes:

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

This advice is based on our own research and experience. It is presented in good faith and may be considered reliable. However, due to the diverse processing, application and handling possibilities the information provided may not be considered legally binding. The same applies to the information provided by our technical and commercial customer service.

We recommend the users of our products to perform their own tests in order to determine whether our products are appropriate for the respective use and environment. We guarantee the consistent quality of our products. We reserve the right to implement technical changes and improvements.