

TECHNICAL DATA SHEET

Medium-strength pipe and thread sealant

Art. no. 0893 577 050

P. Qty.: 1

For sealing all metallic pipe/thread connections and fittings with conical/cylindrical threads in accordance with ISO 7.1 to R3"



Weight of content	50 g
Chemical basis	Dimethacrylic acid ester
Fully hardening/curing conditions	Exclusion of oxygen and contact with metal (copper or iron ions)
Colour (Color)	Yellow fluorescent
Density/conditions	1.05 g/cm ³ / in accordance with DIN EN ISO 2811-1
Min./max. viscosity 1/conditions 1	55000-80000 mPas/at 25 °C, Brookfield RVT, spindle 6/2.5 rpm
Min./max. viscosity 2/conditions 2	18000-30000 mPas/at 25 °C, Brookfield RVT, spindle 6/20 rpm
Max. gap-filling ability	0.5 mm
Suitable for	Thread diameter max. R 3 inch (M80)
Min./max. initial strength	15-30 min
Min./max. functional strength	1-3 h
Max. final strength	6 h
Min./max. processing temperature	5 to 40 °C
Min./max. temperature resistance	-55 to 150 °C
Min. flashing point	100 °C
Min./max. breakaway torque	15-25 Nm
Breakaway torque conditions	DIN EN 15865
Min. prevail torque	2 Nm
Conditions for prevail torque	DIN EN 15865
Min./max. compressive shearing strength/conditions	10-20 N/mm ² /in accordance with ISO 10123
Shelf life from production/conditions	18 Month/at room temperature
Silicone-free	Yes

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Solvent-free	Yes
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Application area

Seals metallic pipe connections in accordance with ISO 7.1 (conical/cylindrical threads) to R3".

Ideal for sealing fittings or valves, threaded connections in metal water pipes (as well as service water in heating or cooling circuits, sprinkler systems etc.).

It can also be used for sealing petrol pipes, diesel pipes or compressed air lines. The product is also suitable for sealing pressure regulators or oil separators in compressed air supplies.

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!

To achieve a completely sealed and pressure-tight connection up to the burst pressure on threaded pipe connections, it is essential that the threads are cut in accordance with the standards, completely coated with adhesive, tightened securely (to ≥ 5 Nm) and are no longer twisted!

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.

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

- DVGW approval (reg. no. NG-5146BM0337), tested in accordance with DIN EN 751-1 (not permissible in domestic gas installations in Germany in accordance with TRGI 2008)
- NSF-tested in accordance with NSF/ANSI 61 for use in service water and drinking water up to +82°C
- Ruhr District Institute of Hygiene: Conforms to the formula recommended by the German Environment Agency for use in applications which come into contact with drinking water dated 11 February 2016. If being used as a thread sealant that comes into contact with water, please observe the relevant recommendations from the association of the adhesive and sealant industry.

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Notice

- As a result of the intense accelerating effect of copper or copper alloys, the sealant can begin to cure during the sealing process. This can cause micro-cracks, which may lead to leaks in the future. We therefore strongly recommend preliminary tests for process assurance if the pipe sealant is used in connections containing copper that will come into contact with water $\geq 40^{\circ}\text{C}$ in the long-term. The user is responsible for determining the suitability of the product for the particular application and adhesion process.
- The following plastics may be affected in the event of prolonged exposure to the liquid product: ABS, celluloid, expandable polystyrene, polycarbonate (Macrolon), PMMA (Plexiglas), polysulfone, SAN (Luran, Tyril), Vinidur, vulcanised fibre and painted surfaces.
- Not permissible in domestic gas installations in Germany in accordance with DVGW TRGI 2008.

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!