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Low-strength pipe and thread sealant with PTFE

Art. no. 0893 511 050
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	Methacrylic acid ether
Fully hardening/curing conditions	Exclusion of oxygen and contact with metal (copper or iron ions)
Colour	White
Density/conditions	1.1 g/cm³/in accordance with DIN EN ISO 2811-1
Min./max. viscosity 1/conditions 1	180000-300000 mPas/at 25 °C, Brookfield RVT, spindle 7/2.5 rpm
Max. gap-filling ability	0.5 mm
Suitable for	Thread diameter max. M80, Thread diameter max. R 3 inch
Min./max. initial strength	10-20 min
Min./max. functional strength	1-3 h
Max. final strength	24 h
Min./max. processing temperature	5 to 35 °C
Min./max. temperature resistance	-55 to 150 °C
Min. flashing point	100 °C
Min./max. breakaway torque	4-10 Nm
Breakaway torque conditions	DIN EN 15865
Min. prevail torque	1 Nm
Conditions for prevail torque	DIN EN 15865
Min./max. compressive shearing strength/conditions	2-6 N/mm²/in accordance with ISO 10123
Shelf life from production/conditions	18 Month/at room temperature
Silicone-free	Yes
Solvent-free	Yes

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Application area

Seals metallic pipe connections in compliance with ISO 7.1 (tapered / cylindrical threads) to R3". Also suitable for cylindric-cylindrical threads if these are tightened to ≥ 5 Nm or cured in a vertical position.

Resistance to chemicals: (Test based on German standard DIN 54452)	
500 hours in:	**Rel. strength in %**
Water/glycol	100
Engine oil, MIL-L-46 152 at 125 °C	100
Petrol at 22 °C, leaded	95
Petrol at 22 °C, unleaded	95
Trichloroethane at 22 °C	50

Designation	**Gas**	**Water up to +40 °C**	**Water from +40 °C to +65 °C**	**Water over +65 °C**
Copper	√	√	see notes	see notes
Brass	√	√	see notes	see notes
Steel plain*	√	√	√	√
*also hot-dip zinc-plated pipes with thread √ = suitable				

Application information

The surface must be free of oil, grease and other contaminants. For the best adhesive results, clean the surfaces with metal cleaner (art. no. 0890 107 063). Observe the flash-off time!

To achieve a completely sealed and pressure-resistant 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 can no longer be twisted!

If cylindrical-cylindrical threads are sealed and cannot be tightened, we recommend storing these vertically until final hardening and only then to install these further. 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.
Excess 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).

Proof of performance

- DVGW approval (reg. no. NG-5146BM0338), tested in accordance with DIN EN 751-1 (not permissible in domestic gas installations in Germany in accordance with DVGW TRGI 2018)
- NSF-tested in accordance with NSF/ANSI 61 for use in service water and drinking water up to +82 °C

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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 with PTFE is used in connections containing copper that will come into contact with water ≥ 40°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.

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