

Technical Data Sheet

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Properties:

afin® Threadlocker is a medium strength stud-locker which cures in contact with metals without oxygen.

The product is characterized by the following properties:

- seals and locks all metal compounds
- oil tolerant
- vibration and shock resistant
- protects against corrosion
- disassemble with normal tools

Application Area:

afin® Threadlocker seals and locks stud bolts, joined parts, bearings and pipes. The product eliminates conventional fixing methods such as cotters, lock washers and discs and should be used where it may be necessary for the fitting to be removed with normal tools in the future.

Instructions for Use:

1. For best results, components to be bonded should be clean and free of grease and oil.
2. For Thru Holes, apply several drops of the product down the bolt at the nut engagement area.
3. For Blind Holes, apply several drops of the product down the internal threads to the bottom of the hole.
4. For sealing applications, apply a 360° bead of afin® Threadlocker to the leading threads of the male fitting, leaving the first thread free. Force the material into the threads to thoroughly fill the voids. For bigger threads and voids, adjust product amount accordingly and apply a 360° bead of afin® Threadlocker on the female threads also.
5. Assemble and tighten as required.

Disassemble:

1. Removable with normal tools.
2. In rare instances where hand tools do not work because of excessive engagement length, apply localized heat to nut or bolt to approx. 250°C. Disassemble while hot.

Special Notes:

- For professional use only.
- Immediate assembly is not necessary as the product reacts only after joining of parts. Anaerobic liquid plastics will not react if used for plastic/metal fittings. For such applications an activator should be used. Use also an activator as option for faster curing speed.
- For proper waste disposal the container must be completely emptied.
- Recycling in accordance with the guidelines of EU Decision 97/129 EC on the Packaging Directive 94/62/EC.

Technical Data:

Base:	methacrylate ester
Colour:	blue
Density:	1.05 g/cm ³ (50%)
Viscosity:	2,000 - 7,500 MPa (25°C)
Temperature resistance:	-55°C up to +150°C
Max. gap filling:	0.25 mm
Breakaway torque:	17 - 22 N/m MLB (DIN EN ISO 10964)
Shear strength:	9 - 13 N/mm ² (DIN 54452)
Initial strength:	10 - 20 minutes
Functional strength:	1 - 3 hours
Final strength:	approx. 12 hours
Max. thread diameter:	36

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Strength class: 2 (DIN 30661)
Flash point: > 100°C

Storage: If stored in dry and cool condition (5-25°C/41-77°F) in its closed original container at least 24 months from production.

Health & Safety: Read Safety Data Sheet before handling or using this product.

Important Notice: The above information is based on the latest stage of development and application technology. Due to a multiplicity of different influencing factors, this information – as well as other oral or written technical advises – must be considered as non-binding hints. The user is obliged in each particular case to conduct performance tests, including but not limited to trails of the product, in an inconspicuous area or fabrication of a sample piece.

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