

AFD 2018 – the anaerobic surface seal (red)



Description and typical applications

AFD 2018 is a solvent-free, stable sealing compound. It is ideal for sealing torsion-resistant metal parts with a flat, planar sealing surface, for example, on housing and bearing covers or on flanges used in the manufacturing of engines, transmissions, and aggregates.

A sealing film, resistant to media and temperature variations, forms and cures without air by making metal contact between the two parts to be joined. The parts can nevertheless be easily separated again.

Unlike with conventional surface sealants, none of the bolt load is lost as a result of the material “setting” when direct contact is made between metallic surfaces. Pressures are reliably sealed immediately after assembly. The maximum pressure tightness of up to approximately 5 bar is achieved after around 24 hours, when the sealant is fully cured.

<i>Characteristic</i>	<i>value range unit</i>
Temperature stability	-55°C to +180°C
Resistance	resistant to water, mineral oils (also with additives), lubricants, fuels, organic solvents, and coolant additives
Largest fillable gap	0.5 mm
Final strength	6 – 24 hours
Density at 20°C	1.0 – 1.1 g/cm ³
Viscosity at 25°C	50,000 – 250,000 mPas/rotating viscometer
Shear strength	8 – 13 N/mm ² DIN 53283
Tensile strength	7 – 10 N/mm ² DIN 53288
Impact strength	8 – 15 N/mm ² ASTM D-950

Elring Sealing Compound AFD 2018



Das Original



Physical and chemical characteristics

Consistency	thixotrope
Color	red
Odor	characteristic
Basis	Methacrylate ester

Processing and application

Clean and degrease the sealing surfaces using spirit or a similar solvent. Perfect sealing or adherence of the sealing compound is ensured only if the surfaces are clean and grease-free. Apply AFD 2018 to the complete sealing surface on one side by squeezing the concertina bottle, then fit the two parts together. There is no need to allow any drying time. The sealing effect is instant. The degree of curing depends on the gap width.

Note: If too much sealing compound is applied, it can drip into the interior.

Warning

Keep out of reach of children. Can irritate the eyes, respiratory system, and the skin*.

Storage

Storage	store in a cool, dry place. Avoid direct sunlight
Storage life	12 months in an unopened container
Disposal	local disposal firm. Do not dispose of with domestic refuse or in the sewage system. European Waste Catalogue: Waste code. 08 00 00/08 04 00/08 04 09

Identification*

Xi	irritant
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Form of supply	Contents	Elring no.	Original packaging
Plastic concertina bottle	75 ml	461.680	10 pieces

* refer to the safety data sheet for additional information

The information contained in this data sheet has been compiled based upon the extensive experience of the seller. However, specific characteristics are not guaranteed nor is any liability undertaken. Since the particular circumstances of each individual case determine the success of the sealing, the data provided here applies in general and not for individual cases.