

Description

Loxéal 59-10 is a single component, medium strength anaerobic sealant with good heat resistance. The product cures at ambient temperature when confined in the absence of air between close fitting metal surfaces.

For sealing of flat mating rigid flange joints of pumps, gearboxes, camshafts blocks, motor flanges. To replace pre-formed gaskets, allows greater machining tolerances, assures metal to metal contacting and dismantling with normal tools. Highly resistant to vibrations, heat, water, gases, LPG, oils, hydrocarbons and many chemicals.

Physical properties

Composition : anaerobic methacrylate
 Colour : red
 Viscosity (+25°C - Pa s) : 50 - 300
 Specific weight (+25°C - g/ml) : ab.1,05
 gap filling : 0,50 mm
 Flash point : > +100°C
 Shelf life +25°C : 1 year in original unopened packaging

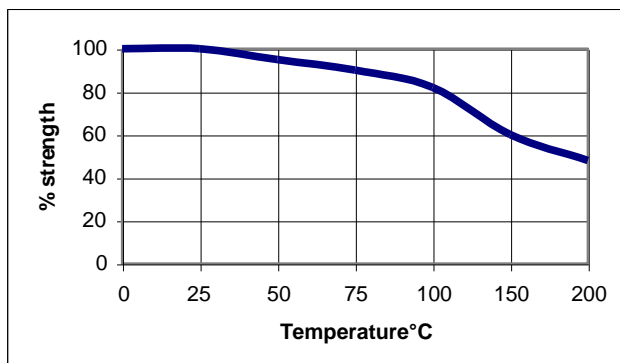
Curing performance

The rate of cure depends on the substrate used, on the gap and on the temperature. The functional strength is reached usually after 1 - 3 hours. The full cure takes 24 - 36 hours. In case of passivated surfaces and/or low temperature we recommend the usage of Loxéal Activator 11.

Environmental resistance

The graph below shows the mechanical strength vs. temperature.

Steel specimen - ISO 4587



Curing properties

Bolt M10 x 20 Zn - quality 8.8 - nut h = 0,8 d at +25°C :
 Handling cure time : 15 - 30 minutes
 Functional cure time : 3 - 6 hours
 Full cure time : 6 - 12 hours
 Shear strength (ISO 4587) : 5 - 10 N/mm²
 Tensile strength (ISO 6922) : 6 - 8 N/mm²
 Impact strength (ASTM D-950) : 3 - 5 KJ/m²
 Temperature range : -55°C/ +200°C

Chemical resistance

Aged under conditions below at indicated temperature after 24 hours from polymerisation.

Substance	°C	Resistance after 100 h	Resistance after 500 h	Resistance after 1000 h
Motor oil	125	excellent	excellent	excellent
Gearbox oil	125	excellent	excellent	Excellent
Gasoline	25	excellent	slight	slight
Water/glycol 50%	87	excellent	excellent	excellent

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For information on resistance with other chemicals, contact Loxéal Technical Service

Directions for use

The product is recommended for use on metal surfaces. Clean and degrease parts to bond with Loxéal Cleaner 10. Apply product in enough quantity to fill the gap. Put together parts and wait till product is cured. The product in liquid form may damage coated parts and elastomers and the contact with some thermoplastics may induce stress-crackings non immediately evidenced. For application on non metal parts, contact Loxéal Technical Service. For disassembly, use normal tools and eventually heat pieces at +150°C/+250°C, remove any residue of cured product mechanically and clean pieces with Acetone.

Storage

Keep product in a cool and dry room at +25°C. To avoid contaminations do not refill containers with used product. For more information on applications, storage and handling contact Loxeal Technical Service

Safety and handling

Consult Material Safety Data Sheet before use.

Note

The data contained herein, obtained in Loxeal laboratories, are given for information only; if specifics are required, please contact Loxeal Technical Department.

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ST5910e/7 09/12 Pag. 2/2