



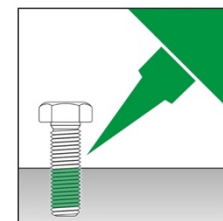
QUALITY & INNOVATION

# LOXEAL® ENGINEERING ADHESIVES PUT IT ON & GO TO SLEEP



MEDIUM STRENGTH THREADLOCKING ADHESIVE

## LOXEAL 55-04 Technical Data Sheet



### Overview:

**Loxreal® 55-04 Medium Strength Anaerobic Adhesive** for thread locking large diameter threads of bolts and nuts of all types requiring to be dismantled. Suitable for use on oily surfaces. High resistant to heat, corrosion, vibrations, water, gases, oils, hydrocarbons and many chemicals.

### Physical Properties:

Adhesive Type: Anaerobic Methacrylate  
Colour: Red  
Fluorescence: Under Blue Light  
Specific Weight (+25°C g/ml): 1.05  
Viscosity at +25°C (mPas): 1,500 – 8,600 thixotropic  
Friction coefficient  $\mu$ : 0.23  
Gap Filling: M36 / 0.25 mm  
Shelf Life: 12 months at 25°C in original unopened packaging

### Curing Performance:

Curing rate depends on the assembly clearance, material surfaces and temperature. Functional strength is usually reached in 1 – 3 hours and full curing takes 24 – 36 hours. In case of passive surfaces and / or low temperature, a fast cure can be obtained using Loxreal activator 11, even if its use may reduce the final strength.

### Curing Properties:

Bolt M10 x 20 ZN – quality 8.8 – nut h = 0.8 d at +25°C  
Handling cure time: 10 – 15 minute  
Functional cure time: 1 – 3 hours  
Full cure time: 3 – 6 hours  
Locking torque (ISO 10964):  
- Breakaway: 20 – 25 Nm  
- Prevailing: 40 – 50 Nm  
Shear Strength (ISO 10123): 10 – 15 N/mm<sup>2</sup>  
Temperature range: -55°C to +150°C

### Direction for use:

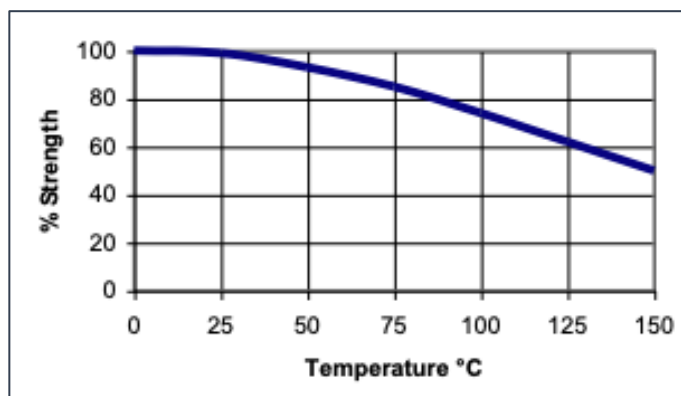
The product is recommended for use on metal substrates. Clean and degrease parts with **Loxreal Cleaner 10**. Apply product to fill the gap completely, assemble parts and hold on for curing time. Liquid product can damage coating, some plastics and elastomers and late stress-cracking events might induced if used with some thermoplastics. For application on non-metal materials, contact Loxreal Technical service. For disassembly, use normal tools and eventually heat pieces at +150°C to +250°C, remove any residue of the cured product mechanically and clean parts with acetone.

### Environmental Resistance

#### Hot strength

The graph below shows the mechanical strength vs. temperature.

Steel Specimen ISO 4587



### Chemical Resistance:

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

Substance	°C	Resistance after 100 h	Resistance after 1,000	Resistance after 5,000 h
Motor oil	125	Good	Discrete	Discrete
Gear box oil	125	Discrete	Discrete	Discrete
Gasoline	25	Excellent	Excellent	Excellent
Water/glycol 50%	87	Excellent	Good	Good
Brake oil	25	Excellent	Excellent	Excellent

For information on resistance with other chemicals, contact Loxreal Technical Service.

### Storage:

We recommend to store this product in a cool and dry place at temperature not exceeding +25°C. To avoid contaminations, do not refill containers with used products. For more information on applications, storage and handling, contact Loxreal Technical Service.

### Safety and Handling:

Consult the Safety Data Sheet before use.

**Note:**

The data contained herein, obtain in Loxeal laboratories, are given for information only; if specifics are required, please contact Loxeal technical department. Loxeal ensures abiding quality of supplied products according to its own specifics. Loxeal cannot assume responsibility for the results obtained by others which methods are not under Loxeal control. It is user's responsibility to determine suitability for user's purpose of any product mentioned herein. Loxeal disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from the sale or use of Loxeal products. Loxeal specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.

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