Technical Data Sheet
LOXEAL 55-02

Description
Medium strength anaerobic adhesive for sealing hydraulic and pneumatic threads connectors up to ¾" and small pipes. To replace P.T.F.E. tapes in the sealing of gases, water, LPG, hydrocarbons, oils and other chemicals. Highly resistant to heat, corrosion, shocks and vibrations. Designed to improve the operating conditions, they are not labelled as hazardous products, according to actual directive on dangerous products.

Physical properties
- Composition: anaerobic methacrylate
- Colour: blue
- Viscosity (+25°C - mPa s): 2.500 - 12.000 thixo
- Specific weight (+25°C - g/ml): 1,05
- Gap filling: M36 - 0,25 mm
- Flash point: > +100°C
- Shelf life +25°C : 1 year in original unopened packaging

Curing properties
- Bolt M10 x 20 Zn - quality 8.8 - nut h = 0,8 d at +25°C
- Handling cure time: 20 - 40 minutes
- Functional cure time: 6 - 12 hours
- Full cure time: 24 - 36 hours
- Locking torque (ISO 10964):
  - breakaway: 18 - 25 N m
  - prevailing: 9 - 16 N m
- Temperature range: -55°C/+150°C

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 LOXEAL activator 11.

Environmental resistance
The graph below shows the mechanical strength vs. temperature. Steel specimen - ISO 4587

![Graph showing mechanical strength vs. temperature](image)

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>°C</th>
<th>Resistance after 100 h</th>
<th>Resistance after 1000 h</th>
<th>Resistance after 5000 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor oil</td>
<td>125</td>
<td>excellent</td>
<td>excellent</td>
<td>excellent</td>
</tr>
<tr>
<td>Gear box oil</td>
<td>125</td>
<td>excellent</td>
<td>excellent</td>
<td>excellent</td>
</tr>
<tr>
<td>Gasoline</td>
<td>25</td>
<td>excellent</td>
<td>good</td>
<td>good</td>
</tr>
<tr>
<td>Water/glycol 50%</td>
<td>87</td>
<td>excellent</td>
<td>good</td>
<td>good</td>
</tr>
<tr>
<td>Brakes oil</td>
<td>25</td>
<td>excellent</td>
<td>good</td>
<td>good</td>
</tr>
</tbody>
</table>

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

Directions for use
The product is recommended for use on metal surfaces. Clean and degrease parts before bonding with LOXEAL Cleaner 10. Apply product to fill completely the gap, assemble parts and hold on for curing time. Liquid product can damage coating, some plastics and elastomers and late stress-cracking events might be induced if used with some thermoplastics. For application on non metal materials, contact LOXEAL 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 parts with Acetone.
Storage
Keep product in a cool and dry room at no more than +25°C. To avoid contaminations do not refill containers with used product. For further 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. 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 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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