Antiloosening lock made of

Microencapsulated Adhesives

precote® 30
precote® 80
precote® 85
Scotch Grip™ 2353
Scotch Grip™ 2510
LOCTITE® 2040
LOCTITE® 2045

In compliance with DIN 267-27

Save
Glue
Grip
Seal
Lubricate
Protect
Microencapsulated Adhesives

Microencapsulation is a method for coating every type of threaded component, regardless of shape and size, certainly each standard component, no matter with or without head. The microencapsulation systems keep their performance for at least 4 years under normal dry conditions and preferably, at temperatures between 20 °C and 25 °C. For further details, please refer to DIN 267-27.

<table>
<thead>
<tr>
<th>Type</th>
<th>Colour</th>
<th>Operating temperature °C</th>
<th>Friction coefficient of thread µ</th>
<th>Curing time h</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>oT precote® 30*</td>
<td>yellow</td>
<td>-60 to +150</td>
<td>0.10-0.15</td>
<td>6</td>
<td>medium tight</td>
</tr>
<tr>
<td>oT precote® 80*</td>
<td>red</td>
<td>-60 to +170</td>
<td>&gt; 0.25</td>
<td>6</td>
<td>highly tight, sealing</td>
</tr>
<tr>
<td>oT precote® 85*</td>
<td>turquoise, orange</td>
<td>-60 to +170</td>
<td>0.10-0.15</td>
<td>6</td>
<td>highly tight, sealing</td>
</tr>
<tr>
<td>Scotch Grip™ 2353</td>
<td>blue</td>
<td>-30 to +110</td>
<td>0.13-0.19</td>
<td>24</td>
<td>highly tight, sealing</td>
</tr>
<tr>
<td>Scotch Grip™ 2510</td>
<td>orange</td>
<td>-30 to +200</td>
<td>not known</td>
<td>24</td>
<td>highly tight, sealing</td>
</tr>
<tr>
<td>LOCTITE® 2040</td>
<td>red brown</td>
<td>-55 to +180</td>
<td>not known</td>
<td>72</td>
<td>highly tight, sealing</td>
</tr>
<tr>
<td>LOCTITE® 2045</td>
<td>red brown</td>
<td>-55 to +180</td>
<td>not known</td>
<td>72</td>
<td>highly tight, sealing</td>
</tr>
</tbody>
</table>

Further product information is available on request!

*Threads < M6 are coated with precote 30/8, 80/8, 85/8.
* For a faster curing time are coated with precote 30/3, 80/3, 85/3

Curing

When screwed into the mating thread, the microcapsules are destroyed by pressure and/or shearing force. With this, the adhesive and the curing agent are released and mixed, so they can interact (polymerisation). Then, the adhesive cures and the desired securing effect, as well as an extra sealing effect, are reached. The curing of the microencapsulated adhesives starts shortly after the assembly. It will be completed after 24 hours, but it can be accelerated by higher temperatures.

Advantages and benefit

- Bonding and sealing function
- Reliable locking against accidental release
- Resistant to oil and grease after it has cured
- No assembly risk
- High safety level
- Undetachable part of the threaded fastener
- Consists of a dry, resistant to touch, locking coating which is ready for use at any time
- The fasteners can be handled as bulk material

This technical information shall only show examples for applications or suggestions. Their adoption or implementation needs to be tested.