PA-42
THREAD SEALANT, MEDIUM VISCOSITY, ANAEROBIC ADHESIVE

PRODUCT DESCRIPTION

Bostik Born2Bond™ Pipe Sealing anaerobic adhesives are a reliable, adaptable solution, suitable for all types of threaded metal pipes and fittings, and both new installations and preventative maintenance. Filling and sealing all voids, these single component adhesives provide 100% surface-to-surface contact, achieving a cohesive, durable connection that will not fail even when subjected to vibration, extreme temperatures or chemical substances. A convenient, cost-effective alternative to conventional sealing alternatives like hemp or PTFE tapes, these adhesives eliminate the need for additional inventory.

PA-42 is an anaerobic thread sealant material with medium viscosity and medium strength. Ideal for hydraulic valves and threaded couplings. Once cured the product prevents leakage and/or loosening of parts from vibration and shock.

For more information, please consult https://born2bond.bostik.com

KEY FEATURES

→ Medium Strength
→ Medium Viscosity & Thixotropic
→ Instant low pressure seal
→ Fluorescent
→ 100% connection – no loosening
→ Vibration resistant
→ Corrosion prevention
→ Single component
→ Suitable for active and passive metals

DIRECTIONS FOR USE

1. For best results, clean all surfaces (internal and external) with Born2Bond™ Pre-Bonding cleaner and wait until fully evaporated.
2. If the cure speed is too slow of on inactive metals, use Born2Bond™ Anaerobic Activator.
3. Apply the product into the threads, leaving the first thread free. Fill all voids thoroughly.
4. Properly tighten fittings with suitable tools. It will seal instantly to moderate pressures.
5. Wait for full cure to get maximum pressure resistance.

METHOD OF USE

Manual: Directly from the bottle with or without dispensing tips for more precise dispensing.

Semi-Automated: Use of pressure-time systems for accurate volume and larger series.

Full-Automated: fully automated robot or application lines.

APPLICATIONS

→ Engines and powertrains
→ Pumps and compressors
→ Liquid and gas storage
→ Hydraulic systems
→ Metal pipes and fittings

STORAGE/SHELF LIFE

Store product in the unopened container in a dry area out of direct sunlight. Storage below 7°C or greater than 28°C can adversely affect product performance. If stored properly, this product has a shelf life of 24 months.

HEALTH/SAFETY

The Safety Data Sheet is available on the Bostik website and should be consulted for proper handling, cleanup and spill containment before use. Keep containers covered to minimize contamination.

LIMITATIONS

This product is not recommended for use in pure oxygen and/or oxygen-rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials. Material removed from containers may be contaminated during use. Do not return product to the original container. Bostik will not assume responsibility for product that has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or customer service representative.
PRODUCT CHARACTERISTICS

Basis Technology  
Components  
Appearance / Color  
Cure  
Temperature use Range  

1K  
Brown  
Anaerobic  
-55°C to +150°C  

UNCURED PHYSICAL PROPERTIES

Viscosity  
Specific Gravity  

[Brookfield: Sp2 @20rpm @25°C]: 400 - 800 mPa.s  
ASTM D1475 - 13(2020)  
1.06  

CURING PROPERTIES

The table below shows the curing properties of the product on mild steel according to ISO 10964

<table>
<thead>
<tr>
<th>Fixture time @ 20°C</th>
<th>10-20min</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixture time with Activator* @ 20°C</td>
<td>&lt;5min</td>
</tr>
<tr>
<td>Full Cure @20°C</td>
<td>24h</td>
</tr>
</tbody>
</table>

*Bostik Born2Bond Anaerobic Activator  

CONVERSIONS

(°C x 1.8) + 32 = °F  
kV/mm x 25.4 = V/mil  
μm / 25.4 = mil  
N x 0.225 = lb  
N/mm x 5.71 = lb/in  
N/mm² x 145 = psi  
MPa x 145 = psi  
N-m x 8.851 = lb-in  
N-mm x 0.142 = oz-in  
mPa.s = cP  

The performance data reported below were measured according to ISO 10964. Product was applied on M10 mild steel bolts and cured for one week at 22°C (71.6°F) before testing.

| Breakaway torque mild steel pre-torqued | 25Nm |
| Prevailing torque mild steel pre-torqued | 25Nm |
| Breakaway torque mild steel unseated | 15Nm |
| Prevailing torque mild steel | 9Nm |

BONDING PERFORMANCE

The performance data reported below were measured according to ISO 10964. Product was applied on M10 mild steel bolts and cured for one week at 22°C (71.6°F) before testing.
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