

TA-WL High Strength

HIGH STRENGTH, MEDIUM VISCOSITY, THREADLOCKING ANAEROBIC ADHESIVE

TECHNICAL DATA SHEET

NOVEMBRE 2021



PRODUCT DESCRIPTION

Bostik Born2BondTM Not CLP Classified range is specially designed to enhance the work environment and ease the EHS assessment of a new product without compromise on performance.

Bostik Born2BondTM Threadlocking anaerobic adhesives provide single-component, one-stop solutions for all threalocking requirements, including preventive maintenance. Eliminating the cost and incovenience of holding extensive inventory, these liquid adhesives fill and seal all voids to achieve a cohesive connecton of metal pars that remains fixed even when subjected to extreme vibrations, temperatures or chemical substances.

TA-WL High Strength is designed to lock and seal threaded fasteners which requiere easy disassembly with normal hand tools. 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

- → Not CLP Classified
- → High Strength
- → Medium Viscosity
- → Color: Green
- → 100% connection no loosening
- → Evenly distribute force
- → Vibration resistant
- → Corrosion prevention
- → Single component
- → Suitable for active and passive metals

DIRECTIONS FOR USE

- For best results, clean all surfaces (internal and external) with Born2BondTM Pre-Bonding Cleaner and wait until fully evaporated.
- 2. If the cure speed is too slow, use Born2Bond $^{\text{TM}}\!$ Anaerobic Activator.
- 3. Shake the product before use.
- 4. Apply adhesive onto threads.
- 5. Assemble and tighten as required.

METHOD OF USE

Manual: Directly from the bottle with or without dispensing cannula 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

- → Mechanical parts assembly
- → Machine engineering
- → Gear manufacturing
- → Engines and powertrains

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 18 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	Anaerobic adhesive
Components	1K
Appearance / Color	Green (UV Positive)
Cure	Anaerobic
Temperature use Range	-55°C to 180°C

UNCURED PHYSICAL PROPERTIES

Viscosity [Brookfield: Sp2 @20rpm @25°C]:	350 - 550 mPa.s
Specific Gravity ASTM	1.06

CURING PROPERTIES

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

Fixture time	10min @ 20°C
Full Cure	

BONDING PERFORMANCE

Breakaway torque mild steel ISO 10964 unseated	20 Nm
Prevailing torque mild steel ISO 10964 unseated	19 Nm
Breakaway torque mild steel ISO 10964 pre-torqued	25 Nm
Prevailing torque mild steel ISO 10964 pre-torqued	20 Nm

HOT STRENGTH

[ISO 10964 - Mild steel]

Remaining strength @ 150°C	43%
Remaining strength @ 180°C	30%

CONVERSIONS

°C × 1.8) + 32 = °F
V/mm x 25.4 = V/mil
nm / 25.4 = in
ım / 25.4 = mil
N x 0.225 = lb
I/mm x 5.71 = Ib/in
J/mm ² x 145 = psi
ЛРа x 145 = psi
√m x 8.851 = Ib-in
√mm x 0.142 = oz·in
nPa·s = cP



TA-WL HIGH STRENGTH

PRODUCT DISCLAIMER

Bostik offers this Technical Data Sheet ("TDS") for descriptive and informational use only. It is not a warranty, a contract or a substitute for expert or professional advice. Please also see the local product Safety Data Sheet for health and safety considerations.

The statements, technical information, data, and recommendations contained in this TDS are provided 'AS IS' and are not warranted or guaranteed in any way. They represent typical results for the products and are based on Bostik's research only. Since the conditions and methods of use of the products are beyond our control, Bostik expressly disclaims any and all liability and damages of whatever kind or nature that may arise from any use of the products, the results therefrom, or reliance on the information contain herein.

This TDS is one of several tools that may be used to help you find the product best suited for your needs. It is used at your own risk, and by using it, you are knowingly accepting and assuming any and all risks associated with its use and recommendations. BUYERS AND USERS ASSUME ALL RESPONSIBILITY AND LIABILITY FOR ANY AND ALL LOSS OR DAMAGE OF WHATEVER KIND OR NATURE ARISING FROM OR RELATED TO THE HANDLING OR USE OF BOSTIK'S PRODUCTS. The performance of the product, its shelf life, and application characteristics will depend on many variables, including but not limited to the kind of materials to which the product will be applied, the environment in which the product is stored and/or applied,

and the equipment used for application, among other things. Any change in any of these variables can affect the product's performance. You are responsible to test the suitability of any product in advance for any intended use or application. Bostik does not guarantee the reliability, completeness, use, or function of the statements, technical information, data, and recommendations contained in this TDS. Nothing contained herein constitutes a license to practice under any patent, and it should not be construed as an inducement to infringe any patent. You are advised to take appropriate steps to be sure that any proposed use of the products will not result in patent infringement.

The information provided herein relates only to the specific products designated and may not be applicable when such products are used in combination with other materials or in any process. The product is sold pursuant to a supply agreement and/or Bostik's Terms and Conditions of Sale, which set forth the sole warranty, if any, that applies to the product. NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR WARRANTY OF MERCHANTABILITY, IS MADE CONCERNING THE PRODUCTS DESCRIBED OR THE INFORMATION PROVIDED HEREIN, AND TO THE MAXIMUM EXTENT ALLOWED BY LAW, SUCH WARRANTIES ARE HEREBY DISCLAIMED. BOSTIK DISCLAIMS ANY LIABILITY FOR DIRECT. INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES TO THE MAXIMUM EXTENT ALLOWED BY LAW.