

TA-WL Low Strength

**LOW STRENGTH, MEDIUM VISCOSITY,
THREADLOCKING ANAEROBIC ADHESIVE**

TECHNICAL DATA SHEET

NOVEMBRE 2021



PRODUCT DESCRIPTION

Bostik Born2Bond™ 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 Born2Bond™ Threadlocking anaerobic adhesives provide singlecomponent, one-stop solutions for all threadlocking requirements, including preventive maintenance. Eliminating the cost and inconvenience of holding extensive inventory, these liquid adhesives fill and seal all voids to achieve a cohesive connection of metal parts that remains fixed even when subjected to extreme vibrations, temperatures or chemical substances.

TA-WL Low Strength is designed to lock and seal threaded fasteners which require 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
- Low Strength
- Medium Viscosity
- Color : Purple
- 100% connection - no loosening
- Evenly distribute force
- 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, use Born2Bond™ 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	Purple (UV Positive)
Cure	Anaerobic
Temperature use Range	-55°C to 180°C

UNCURED PHYSICAL PROPERTIES

Viscosity [Brookfield: Sp3 @20rpm @25°C]:	900 - 1 500 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	<30min @ 20°C
Full Cure	12h @ 20°C

BONDING PERFORMANCE

Breakaway torque mild steel ISO 10964 unseated :	9 Nm
Prevailing torque mild steel:	5 Nm

HOT STRENGTH

[ISO 10964 - Mild steel]

Remaining strength @ 150°C	59%
Remaining strength @ 180°C	55%

CONVERSIONS

$$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$$

$$\text{kV/mm} \times 25.4 = \text{V/mil}$$

$$\text{mm} / 25.4 = \text{in}$$

$$\mu\text{m} / 25.4 = \text{mil}$$

$$\text{N} \times 0.225 = \text{lb}$$

$$\text{N/mm} \times 5.71 = \text{lb/in}$$

$$\text{N/mm}^2 \times 145 = \text{psi}$$

$$\text{MPa} \times 145 = \text{psi}$$

$$\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$$

$$\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$$

$$\text{mPa}\cdot\text{s} = \text{cP}$$

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