

# RA-WL High Strength

HIGH STRENGTH, MEDIUM VISCOSITY, RETAINING ANAEROBIC ADHESIVE

TECHNICAL DATA SHEET

NOVEMBRE 2021



#### PRODUCT DESCRIPTION

Bostik Born2Bond<sup>™</sup> 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.

Born2Bond<sup>TM</sup> Retaining anaerobic adhesives are a cost effective, adaptable alternative or addition to mechanical retaining processes. Capable of bonding all types of cylindrical assemblies, these single-component solutions also seal all metal joints to eliminate the risk of fretting corrosion. They achieve 100% surface-to-surface contact, producing a cohesive, durable connection capable of withstanding vibration, extreme temperatures and chemical substances.

RA-WL High strength is a low viscosity, high strength anaerobic adhesive designed to retain cylindrical parts. 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
- → High power transmission
- → Resistance to dynamic loads
- → Vibration resistant
- → Corrosion prevention
- → Single component

# **DIRECTIONS FOR USE**

- For best results, clean all surfaces (internal and external) with Born2BondTM Pre-Bonding Cleaner and wait until fully evaporated.
- If the cure speed is too slow on inactive metals, use Born2BondTM Anaerobic Activator.
- 3. For slip fitted parts, apply the adhesive around the pin and the inside of the collar and rotate during assembly to ensure fully coverage.

- 4. For press fitted parts, apply adhesive fully to both surfaces and assemble at high pressure.
- 5. For shrink fitted parts, the adhesive should be on the pin, the collar should be heated.
- 6. Parts should be fixed until sufficient handling strength is achieved

#### **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.

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- → Gear manufacturing fleche
- → Machine engineering
- → Bearing assembly
- → Drive shafts

# **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 150°C

# **UNCURED PHYSICAL PROPERTIES**

Viscosity [Brookfield: Sp2 @20rpm @25°C]:	350 - 550 mPa.s
Specific Gravity ASTM	1.10

#### **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	144h @ 20°C

# **BONDING PERFORMANCE**

Shear strength - ISO 10123:	>15 N/mm <sup>2</sup>
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## **HOT STRENGTH**

[ISO 10964 - Mild steel]

Remaining strength @ 150°C	25%
Remaining strength @ 180°C	15%

### **CONVERSIONS**

$(^{\circ}C \times 1.8) + 32 = ^{\circ}F$
kV/mm x 25.4 = V/mil
mm / 25.4 = in
μm / 25.4 = mil
N x 0.225 = lb
$N/mm \times 5.71 = Ib/in$
$N/mm^2 \times 145 = psi$
MPa x 145 = psi
$N \cdot m \times 8.851 = Ib \cdot in$
$N \cdot mm \times 0.142 = oz \cdot in$
mPa·s = cP



# RA-WL HIGH STRENGTH

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