

PRE-BONDING CLEANER

TECHNICAL DATA SHEET

JUNE 2021



PRODUCT DESCRIPTION

Born2Bond™ Pre-Bonding Cleaner is suitable for cleaning of all kinds of substrates prior to bonding. Solvent-based and supplied in aerosol form, it will easily remove grease, oil, lubricants and other contaminants without leaving any residue.

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

KEY FEATURES

- Fast evaporation
- No residues
- Suitable for multiple substrates including sensitive plastics

DIRECTIONS FOR USE

1. Spray from a distance of approx. 15 to 20cm onto the surface or use a solvent soaked towel for wiping.
2. For high precision use the cannula.
3. Wipe with a clean paper towel in one direction and remove all contaminations.
4. Repeat cleaning process if necessary.
5. Wait until the solvent is evaporated before bonding.

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 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	Acrylic
Components	1K
Appearance / Color	Purple (Fluorescent)
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 D1475 - 13(2020)	1.06

CURING PROPERTIES

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

Fixture time @ 20°C	<20min
Fixture time with Activator* @ 20°C	<15min
Full Cure @20°C	12h

*Bostik Born2Bond Anaerobic Activator

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. Oil-tolerance is measured on slightly oiled substrates (mild steel) and cured for 24h.

Breakaway torque mild steel unseated	6Nm
Prevailing torque mild steel	4Nm
Breakaway torque mild steel pre-torqued 14Nm	14Nm
Prevailing torque mild steel pre-torqued 14Nm	14Nm
Oil tolerance (Strength)	12Nm

HOT STRENGTH

The data below shows the adhesive performance on M10 mild steel bolts at various temperatures.

The adhesive was cured for one week at 22°C. The breakaway strength was tested according to ISO 10964.

The strength test was performed after the specimen were heated for 30 minutes at the indicated temperatures.

Remaining strength @ 150°C	40%
Remaining strength @ 180°C	35%

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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