

Born2Bond Structural Cyanoacrylate Adhesive



Description

Also available to buy online at [mouser.com](https://www.mouser.com)  SHOP 

Born2Bond™ Structural Cyanoacrylate Adhesive is a high-strength, high-temperature (120°C) hybrid cyanoacrylate adhesive that provides a fast fixture time at room temperature while maintaining good processability and the capability to bond gaps up to 5mm. This product offers excellent bonding characteristics to a large variety of substrates, including aluminium, plastics and elastomers, but also porous substrates, such as woods, chipboard and leather.

Born2Bond Structural is an incredibly tough, structural, fast curing two part (2K) cyanoacrylate adhesive, with a long open time.

Born2Bond Structural offers “on demand” structural bonding. Once mixed and applied, the exposed dot or bead has an open time of up to 30 minutes – but a fixture time of only seconds once the parts are assembled. This fixture and ultimate cure time compares favourably with other structural adhesive chemistries.

Formulated using MECA (methoxyethyl cyanoacrylate) chemistry, **Born2Bond Structural** is able to **withstand temperatures up to 120°C**, far exceeding the capabilities of standard cyanoacrylate adhesives. It offers a balance between bonding speed, long open time, bond strength (>6 MPa), and impact and environmental resistance.

Born2Bond Structural Cyanoacrylate Adhesive



Born2Bond Structural is supplied in a syringe cartridge, available in 10g and 50g sizes. Both cartridges come with static mixing nozzles. The 10g size is suitable for manual application and comes with a plunger. The 50g size is used with a [dispensing gun](#) for manual application, or can be integrated into automation.

Features & Benefits

- Fixture time of 30 seconds (substrate dependent)
- High adhesion strength: > 6 MPa after 5 min
- Able to withstand temperatures up to 120°C
- Impact resistant
- Open time up to 30 minutes
- Fills gaps up to 5 mm
- Excellent adhesion to many different substrates
- Translucent when cured
- Temperature and humidity resistance
- Gel consistency for precise application
- Excellent adhesion to aluminium (Al)

Applications

- Structural bonding
- Multiple substrate bonding

Born2Bond Structural Cyanoacrylate Adhesive



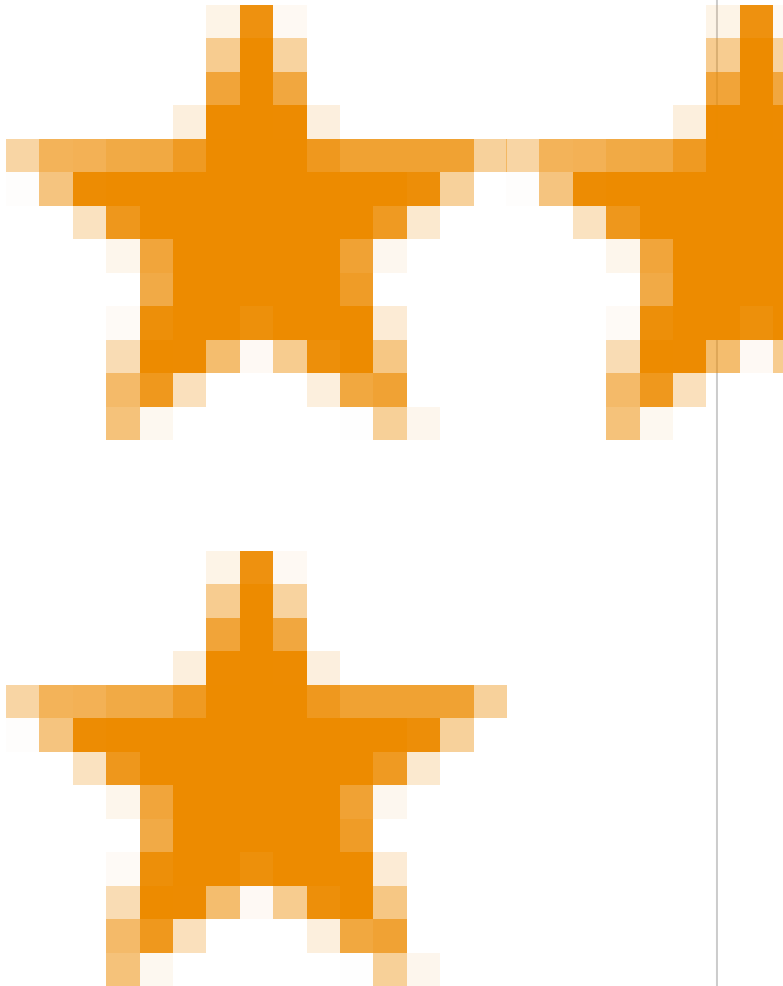
- Magnet bonding
- Gap filling
- Sensor bonding (i.e. in automotive tires)
- Bathroom accessories

Substrate	Born2Bond Structural
-----------	----------------------

Born2Bond Structural Cyanoacrylate Adhesive



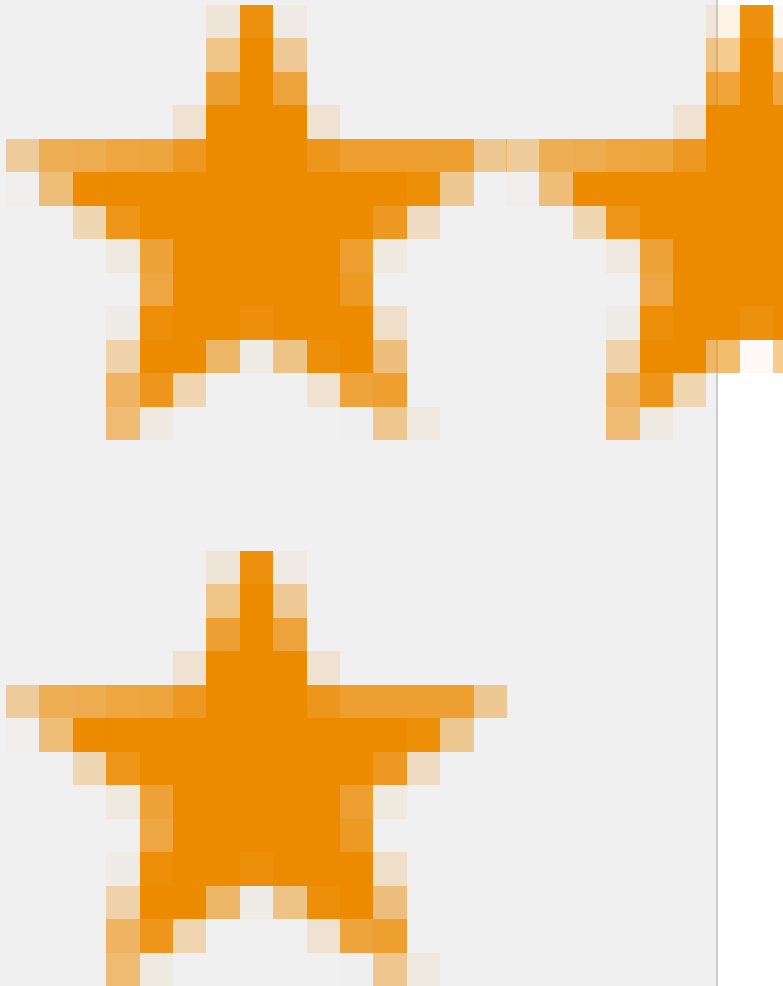
ABS
Acrylonitrile-butadienestyrene



**Born2Bond Structural Cyanoacrylate
Adhesive**



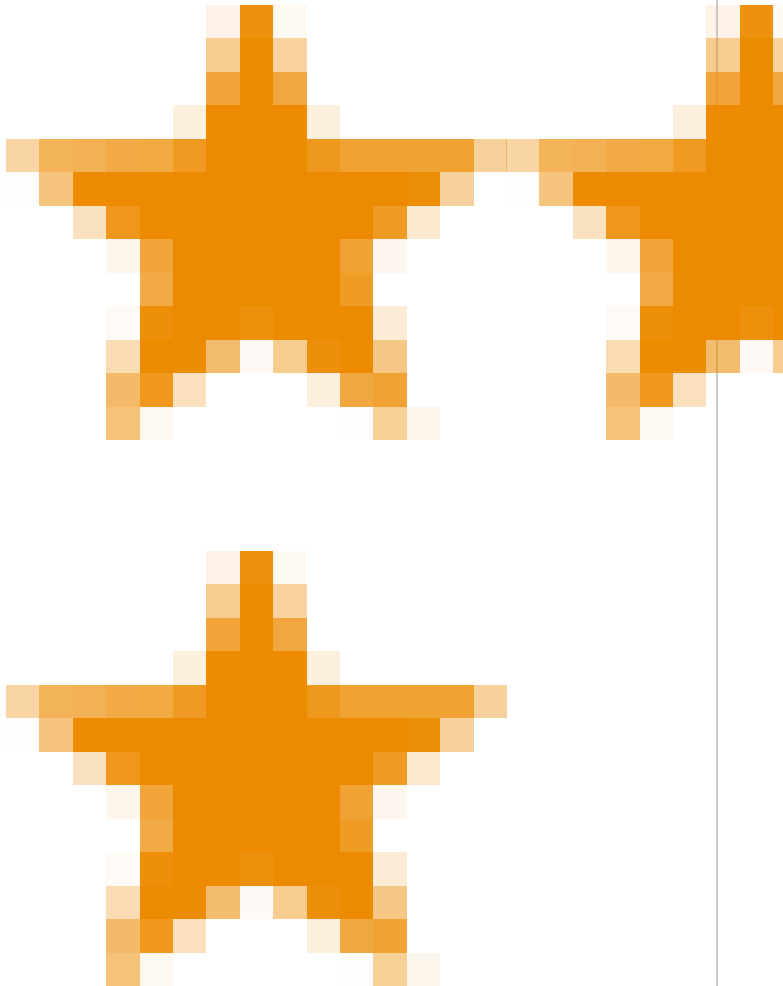
PC
Polycarbonate



Born2Bond Structural Cyanoacrylate Adhesive



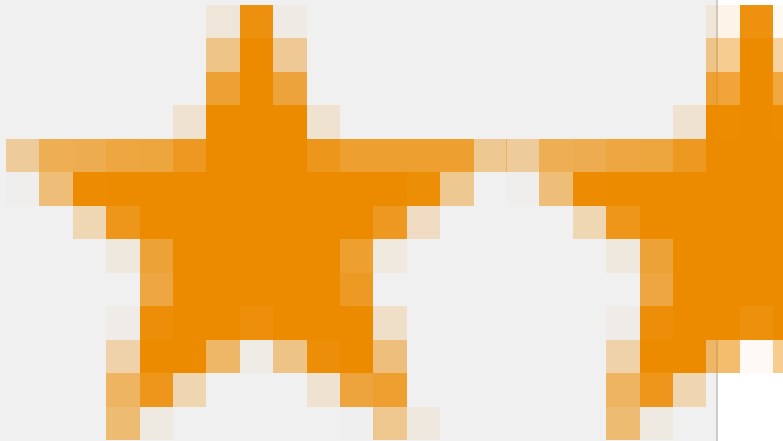
PC/ABS
Blend of PC and ABS



Born2Bond Structural Cyanoacrylate Adhesive



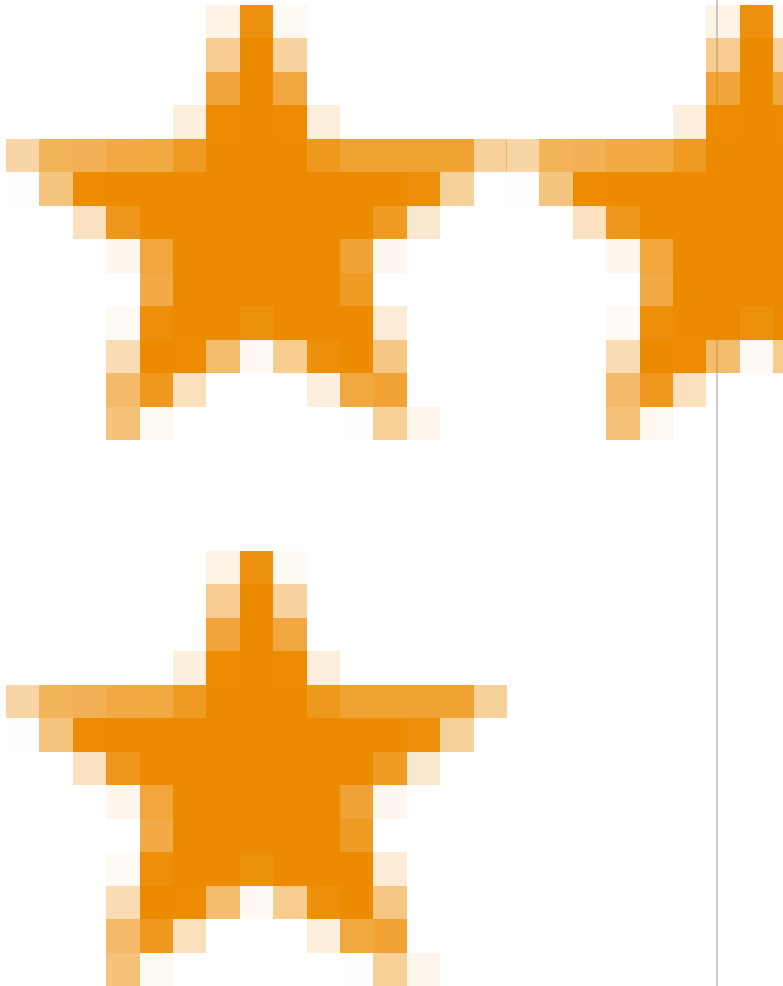
PE
Polyethylene
(with Primer)



Born2Bond Structural Cyanoacrylate Adhesive



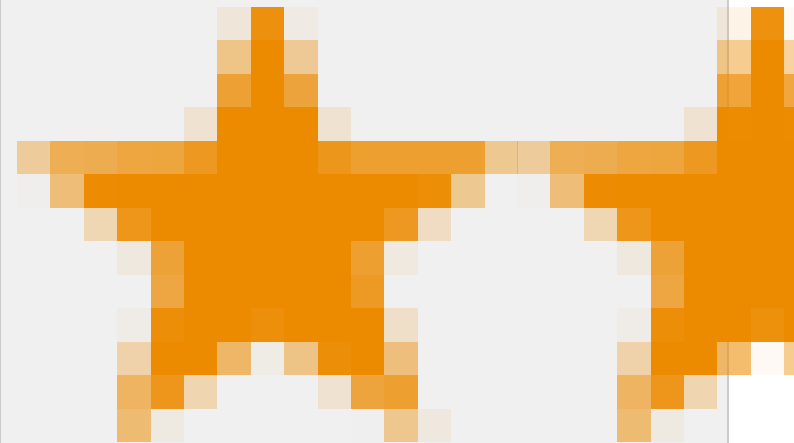
PMMA
Poly(methyl methacrylate)



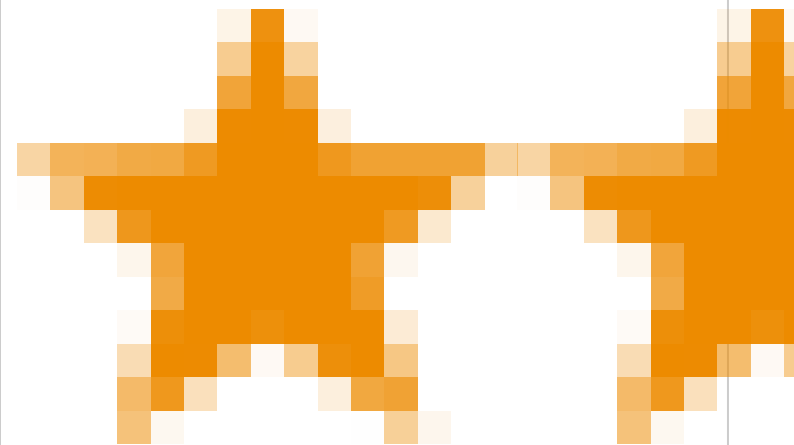
Born2Bond Structural Cyanoacrylate Adhesive



PP
Polypropylene
(with Primer)



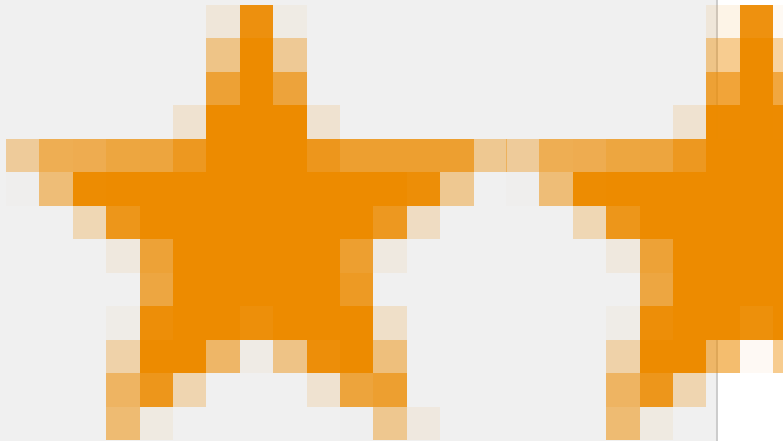
PPO
Poly(phenylene oxide)
(with Primer)



Born2Bond Structural Cyanoacrylate Adhesive



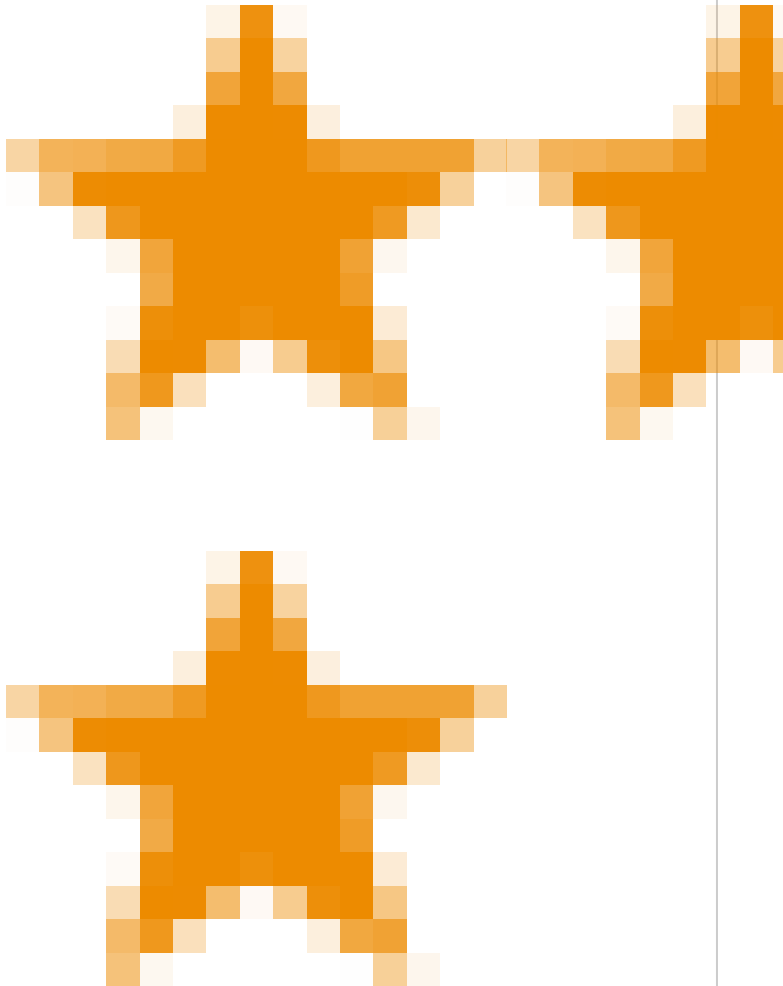
PS
Polystyrene



Born2Bond Structural Cyanoacrylate Adhesive



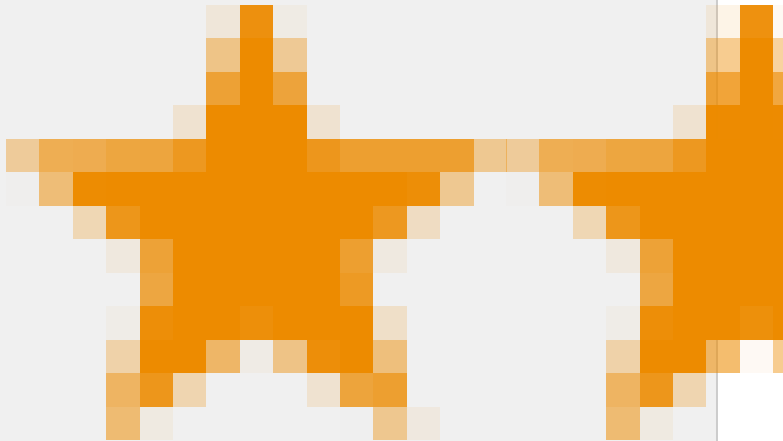
PS
Polystyrene
(with Primer)



Born2Bond Structural Cyanoacrylate Adhesive



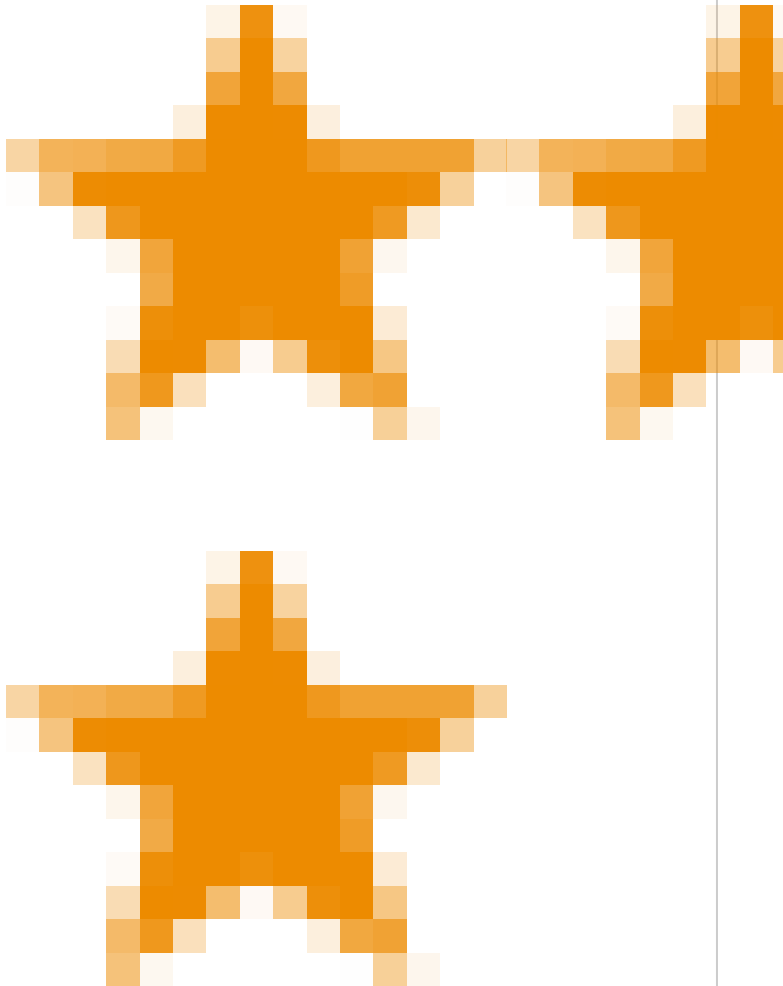
PU
Polyurethane
(with Primer)



**Born2Bond Structural Cyanoacrylate
Adhesive**



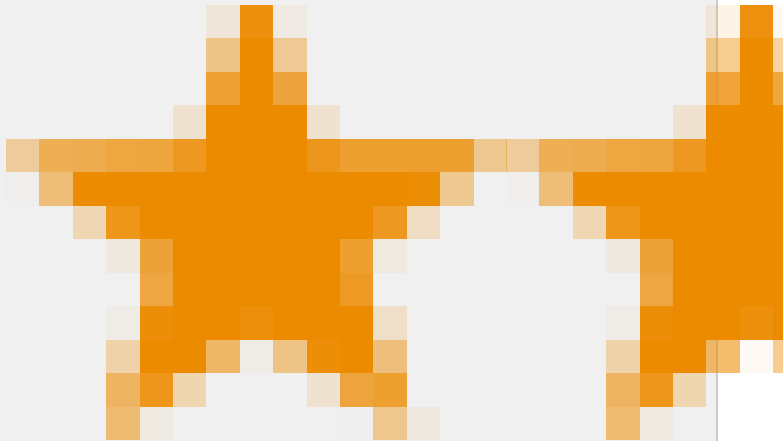
PVC
Polyvinyl chloride



Born2Bond Structural Cyanoacrylate Adhesive



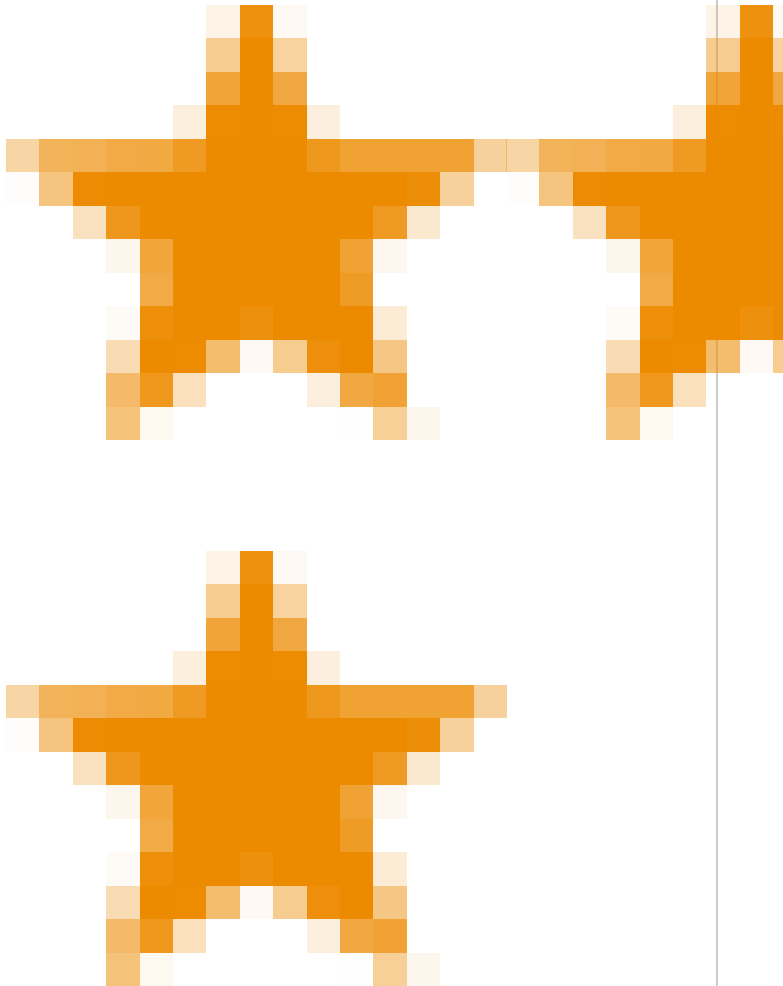
TPU
Thermoplastic polyurethane
(with Primer)



Born2Bond Structural Cyanoacrylate
Adhesive



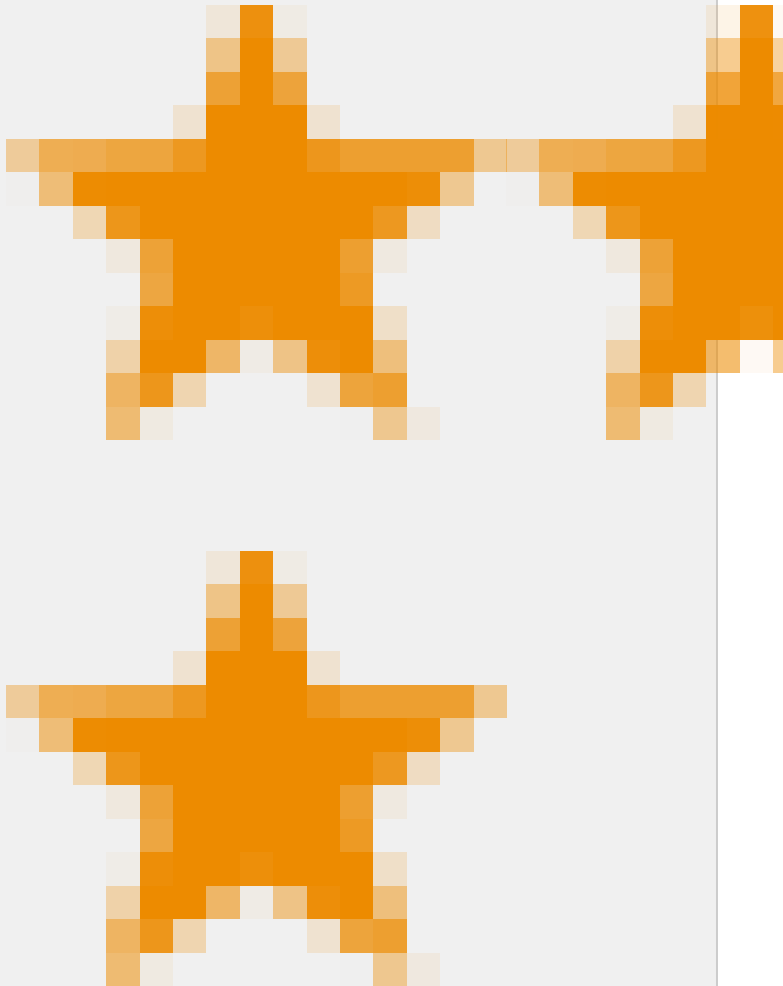
AL
Aluminium



Born2Bond Structural Cyanoacrylate Adhesive



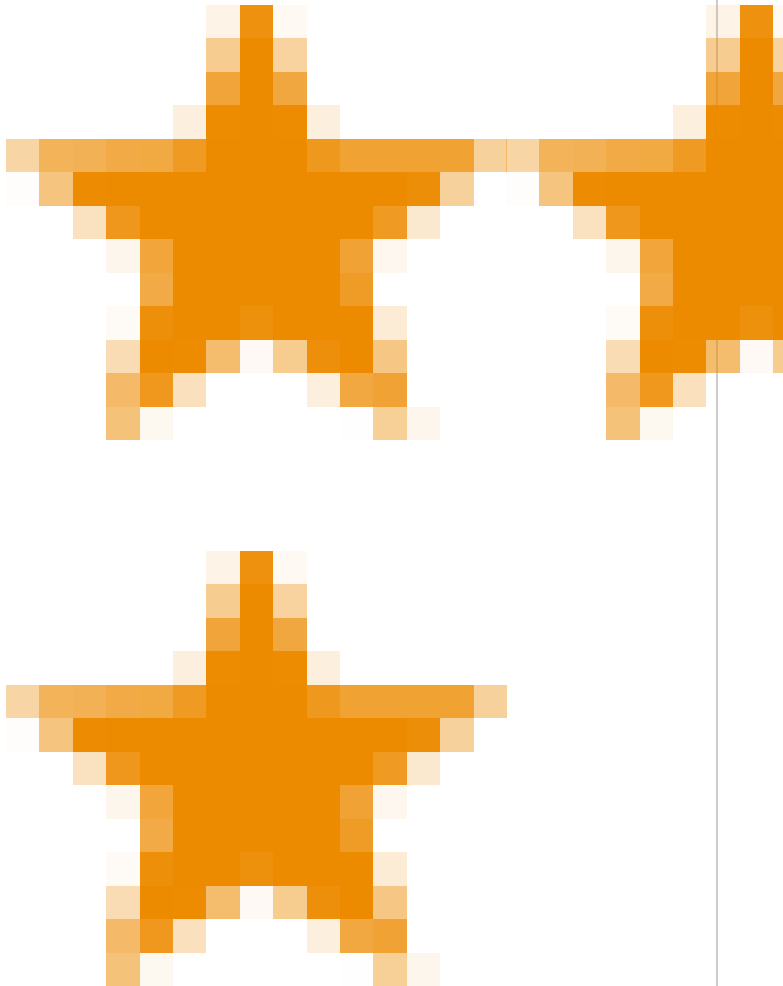
Coated AL
Powder coated or
anodized aluminum



Born2Bond Structural Cyanoacrylate
Adhesive



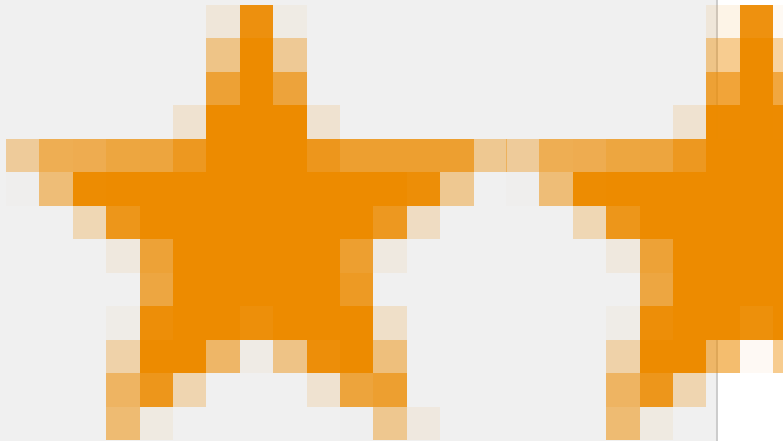
Glass
Glass



Born2Bond Structural Cyanoacrylate Adhesive



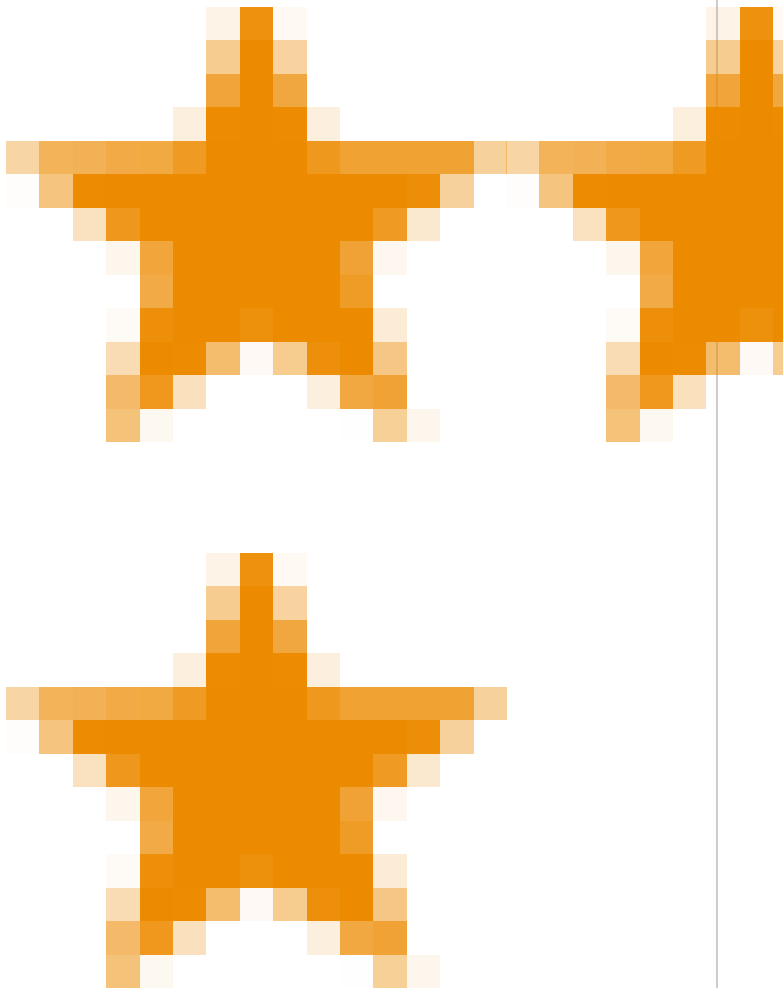
Si
Silicone
(with Primer)



Born2Bond Structural Cyanoacrylate Adhesive



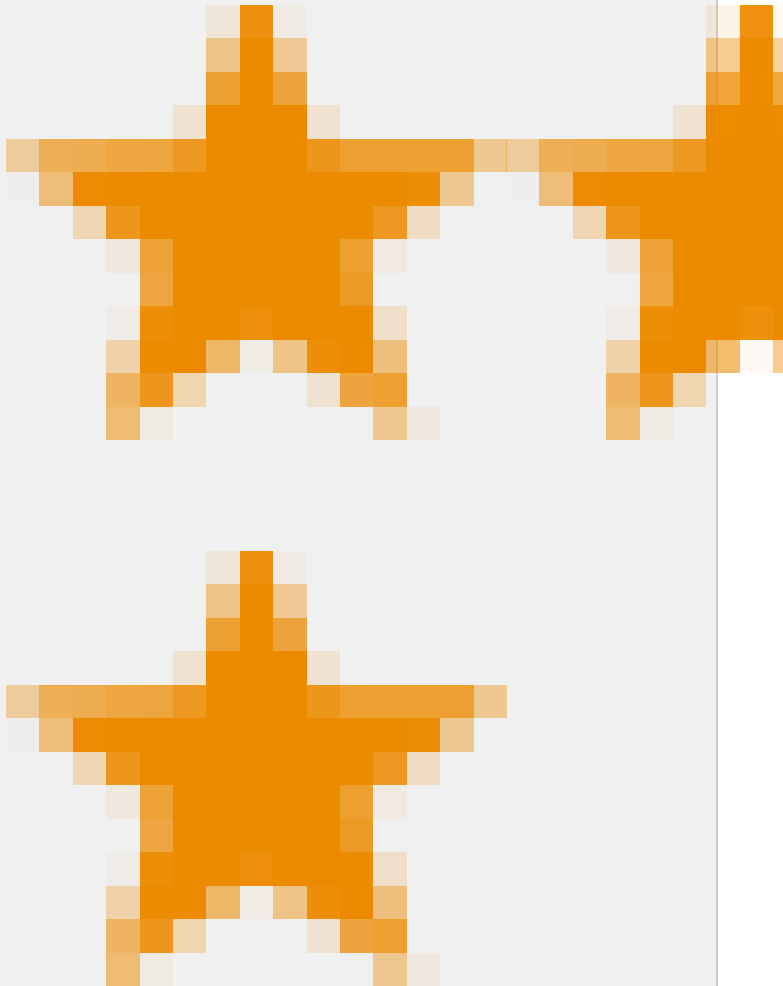
SUS
Stainless steel



**Born2Bond Structural Cyanoacrylate
Adhesive**



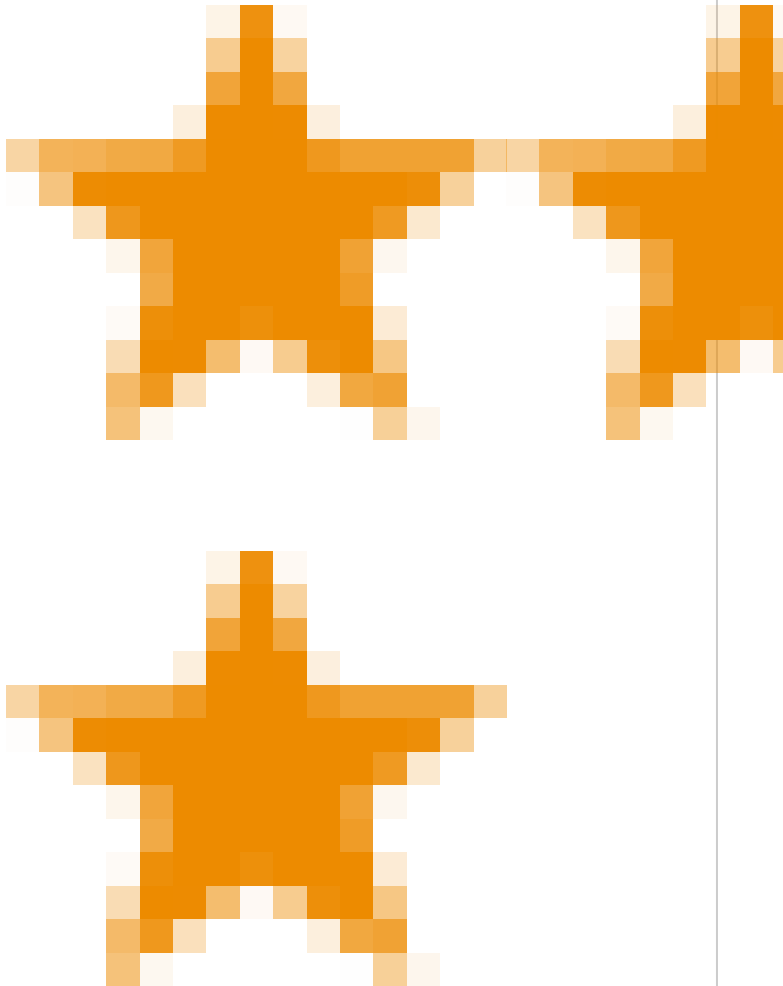
Mild Steel



Born2Bond Structural Cyanoacrylate Adhesive



GBMS
Grit blasted mild steel



Key:

Born2Bond Structural Cyanoacrylate Adhesive



★ = Moderate ★★ = Good ★★★ = Excellent

Specifications

Typical properties	Born2Bond Structural
Colour	Transparent
Viscosity (cps)	Part A: 100,000 - 150,000 Part B: 40,000 - 80,000
Gap Fill (cm)	0.5
Fixture Time (sec)	30 - 90
Bond Strength (MPa)	16
Temperature Use Range (°C)	-40 to 120
Hardness Shore D	65

Born2Bond Structural Cyanoacrylate Adhesive



Typical properties	Born2Bond Structural
Refractive Index (ABBE)	1.49 - 1.50
Glass Transition Temperature (°C)	91
Volume Resistivity (Ohm.m)	$4.6 \cdot 10^{10}$
Specific Gravity (g/mL)	Part A: 1.06 Part B: 1.10

Safety Data Sheets

For the latest SDS for this product, please e-mail msds@intertronics.co.uk

Other Information

Born2Bond Structural Cyanoacrylate Adhesive



[Adhesive Problem? What's the Cure?](#)

A guide to adhesive bonding, considering structural bonding and the criteria involved for successful assembly.



[The 10 Myths About Cyanoacrylate Adhesives](#)

This guide provides an overview to cyanoacrylate adhesives and dispels 10 of their most widely believed myths.


Born2Bond Structural Cyanoacrylate Adhesive



Find out more about the technology behind the Born2Bond Structural by reading our [technical bulletins and white papers](#):



- [Are Cyanoacrylate Adhesives Structural?](#)

Ordering Information

Part Number	Description	Packaging
B2B30619518 	Born2Bond Structural cyanoacrylate adhesive	10g side-by-side cartridge & 5 static mixing nozzles

Born2Bond Structural Cyanoacrylate Adhesive



Part Number	Description	Packaging
B2B30619584 	Born2Bond Structural cyanoacrylate adhesive	50g side-by-side cartridge & 8 static mixing nozzles
B2B30615645 	Born2Bond Primer - Bottle	30ml bottle
IDM805004	Manual Dispensing Gun	

Let’s start by talking about your application

Born2Bond Structural Cyanoacrylate Adhesive



01865

842842



orders@intertronics.co.uk

- Name*
- Company*
- Phone*
- Email*
- Post code*

If you're in the UK, knowing your postcode would help us get in touch even more quickly. If you're outside the UK, please indicate your country.

-
- Tell us about your application

Born2Bond Structural Cyanoacrylate Adhesive



Any information that you submit using this form will be processed according to our [privacy policy](#).

Comments

This field is for validation purposes and should be left unchanged.

Submit

Supplied by:



INTERTRONICS
12a Station Field Industrial Estate, Banbury Road, Kidlington
Oxfordshire England OX5 1JD
t 01865 842842 e info@intertronics.co.uk

Last updated: January 2024 Version: 2.2
Statements, technical information and recommendations contained herein are based on tests we believe to be reliable but they are not to be construed in any manner as warranties expressed or implied. The user shall determine the suitability of the product for his intended use and the user assumes all risk and liability whatsoever in connection therewith.