

Technical data sheet



Product: ULTRA LV

Manufacturer: BOSTIK SA

Product group: KLEBSTOFF

Article group: CYANACRYLAT

Download: 13.06.2026

BORN2BOND™ ULTRA LV

This data sheet was provided to you by Tewipack Uhl GmbH. The company tewipack Uhl GmbH assumes no responsibility for the topicality and the Accuracy of the information contained. The properties of the products can vary due to various influences such as composition and condition of the Substrate, impurities in or on the substrate, temperature and humidity at the Change storage and environmental conditions during use. Using this product in combination with other material, the customer is responsible for to check through our own tests whether the product is suitable for the planned combination and whether this combination delivers the expected results

Tewipack Uhl GmbH
Industriestraße 15
D-75382 Althengstett

Telephone:
+49(0)7051/9297-0
Fax:
+49(0)7051/9297-99

E-Mail:
info@tewipack.de
Website:
www.tewipack.de

Managing director:
Alexander Uhl,
Michael Uhl
HRB 330424
Amtsgericht
Stuttgart

Bank details:
Sparkasse
Sindelfingen
Pforzheim
Calw
BLZ 666 500
85
Konto 17 787

Commerzbank
Sindelfingen
BLZ 603 400 71
Konto 8 001 166

Vereinigte
Volksbank AG
Böblingen
BLZ 603 900 00
Konto 80 089
003

Postbank
Stuttgart
BLZ 600 100
70
Konto 146
294 708

Ultra LV

LOW-ODOR, LOW-BLOOMING, INSTANT ADHESIVE

TECHNICAL DATA SHEET

NOVEMBER 2021



PRODUCT DESCRIPTION

Born2Bond™ Ultra LV adhesives are low-odor, low-blooming, instant adhesives with a range of viscosities, specially designed for bonding most substrates including plastics and rubbers. The formulation consistency has been designed for high bond strength, even in places that are subject to flexing. Careful selection of the formulation ingredients ensures that the product does not stain areas close to the adhesive joint.

KEY FEATURES

- Fixture time : 10 seconds*
- High bonding strength
- Long open time
- Low blooming
- Less brittle than conventional instant adhesives
- Bonds a large range of materials**, including polystyrene
- Transparent and easy to use

DIRECTIONS FOR USE

1. Before applying Born2Bond Ultra LV, make sure the surface is clean, dry and grease-free.
2. Apply adhesive to one surface. Do not use items like tissues or a brush to spread the adhesive.

3. Assemble the parts within a few seconds. The parts should be accurately positioned, as the short fixture time leaves little opportunity for adjustment.

4. Bonds should be fixed or clamped until the adhesive has reached fixture.

→ The product should be allowed to develop to full strength before subjecting it to any service loads (typically 24 to 72 hours after assembly, depending on bond gap, materials and ambient conditions).

APPLICATIONS

Typical applications for this product are leather and rubber bonding, shoe assembly, automotive aftermarket applications, speaker assembly, and car wheel bonding.

STORAGE/SHELF LIFE

Optimal storage: 2°C to 8°C (35.6°F to 46.4°F). Storage below 2°C (35.6°F) or greater than 8°C (46.4°F) can adversely affect the product's properties. If stored properly, this product has a shelf life of 12 months from the packaging date.

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

Base Technology	Methoxyethyl Cyanoacrylate
Components 1k - 2k	1k
Appearance/Color	Transparent
Temperature Use Range	-40°C to 80°C (-40°F to 176°F)
VOC Content (ISO 11890-2)	33 g/L

UNCURED PHYSICAL PROPERTIES

Viscosity at 25°C (77°F)*	20 - 50 cP
Specific Gravity (ASTM D1875: 23°C / 73.4°F)	1.09 g/mL
Refractive Index, ABBE	1.49 - 1.50

*based on Brookfield viscometer

CURED PHYSICAL PROPERTIES

Soft Point - HDT (ASTM E2092-18a)	56°C (132.8°F)
Glass Transition Temperature (ISO 6721)	87°C (188.6°F)
Coefficient of Linear Thermal Expansion (ISO 10545-8)	40 x 10 ⁻⁶
Water Absorption (after 24 hrs) (ASTM D542)	3.8%
Impact Resistance (after 24 hrs) (ISO 9653)	9.4 kJ/m ²
Electrical Properties of Resistivity IEC 60093	
Surface resistivity DC 500 V (Ohm)	3.4·10 ¹⁴
Volume resistivity DC 1kV (Ohm.m)	6.5·10 ¹³
Corrected Dissipation Factor, Dielectric Constant IEC 60250	
D @ 1 kHz	0.0227
k' @ 1 kHz	3.34
D @ 1 MHz	0.0158
k' @ 1 MHz	3.19
DC breakdown voltage according to IEC 60243-2	59.3 kV/mm

CONVERSIONS

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = in
µm / 25.4 = mil
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm ² x 145 = psi
MPa x 145 = psi
N·m x 8.851 = lb·in
N·mm x 0.142 = oz·in
mPa·s = cP

FIXTURE TIME

Fixture Time* (0.1N/mm²)

Stainless Steel (A316)	15 - 20 seconds
Steel (Mild Steel)	5 - 10 seconds
Aluminum (A5754)	5 - 15 seconds
Neoprene	5 - 15 seconds
EPDM	5 - 15 seconds
Rubber, nitrile	10 - 20 seconds
ABS	10 - 20 seconds
PVC	10 - 30 seconds
Polycarbonate	15 - 45 seconds
Phenolic	30 - 50 seconds
Wood (Oak)	45 - 60 seconds
Wood (Pine)	5 - 20 seconds
Chipboard	10 - 15 seconds
Leather	10 - 15 seconds
PC/ABS	15 - 45 seconds
Paper	5 - 10 seconds

*if stored in proper conditions

BONDING PERFORMANCE

Lap shear strength (ISO 4587) @ 23°C (73.4°F) (MPa)

After 24h Curing at RT

Grit-Blasted Mild Steel (GBMS)	20	+/- 1	
Aluminum (A5754)	13	+/- 1	
ABS	6	+/- 1	SF*
PVC	4	+/- 1	SF*
Phenolic	4	+/- 2	
Polycarbonate	4	+/- 1	SF*

*Substrate failure

@ 100mm/min after 24h Curing at RT

Nitrile	0.4	+/- 0.1
Neoprene	0.3	+/- 0.1

After 1 Week Curing at RT

Steel (GBMS)	20	+/- 1
--------------	----	-------

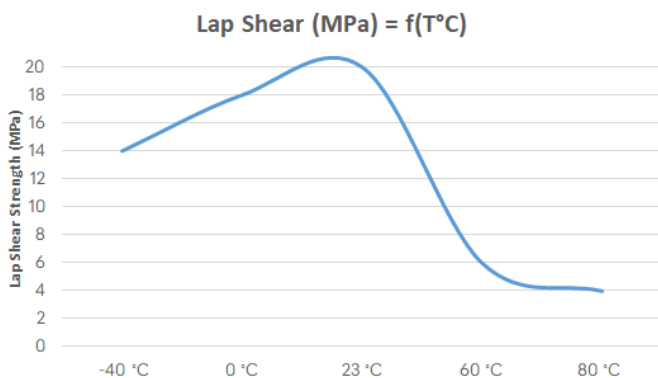
T-Peel Strength @ 23°C (73.4°F) (N/mm)

@100mm/min after 1 week curing @ RT

EPDM	2.1	+/- 0.2
------	-----	---------

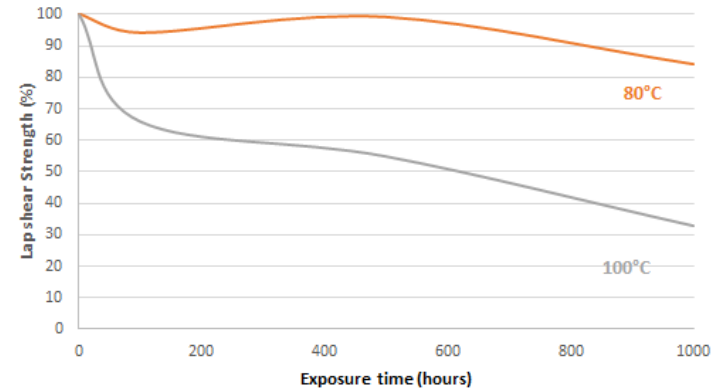
HOT STRENGTH

The graph below shows the adhesive performance on grit-blasted, mild steel (GBMS) at various temperatures. The adhesive was cured for one week at 22°C (71.6°F). The lap shear strength was tested according to ISO 4587. The strength test was performed in a climatic chamber that was set up for 30 minutes before testing at the indicated temperatures.



HEAT AGING

The graph below shows the heat aging results. The adhesive was aged at the temperature indicated, tested at 22°C (71.6°F) and cured for one week. The lap shear strength was tested according to ISO 4587 on grit-blasted, mild steel (GBMS).



CHEMICAL/SOLVENT RESISTANCE

Aged under conditions indicated and tested on GBMS.

% of Initial Strength vs. Exposure Time (hours) and vs. Type of Contaminant

Testing on GBMS		% of Initial Strength		
ENVIRONMENT	TEMP	100 H	500 H	1000 H
Motor Oil	40°C (104°F)	90	95	105
Water	23°C (73.4°F)	80	55	45

HEAT/HUMIDITY RESISTANCE

Aged under conditions indicated and tested @ 23°C (73,4°F).

% of Initial Strength vs. Exposure Time (hours)

ENVIRONMENT - 95% RH & 40°C (104°F)	% of Initial Strength		
	100 H	500 H	1000 H
GBMS	75	40	0
Polycarbonate	100	85	80

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.**