SHUBOND BIO-BASED

BIO-BASED • FAST-SET • LOW ODOUR

PRODUCT DESCRIPTION

Shubond Bio Based is a low odour, very fast curing, toughened semi-rigid structural adhesive. Tough and impact resistant bonds can be formed with minimal surface preparation.

A next-generation, semi-structural methyl methacrylate adhesive formulated with bio-based polymer content.

By incorporating renewable raw materials, Shubond Bio Based helps reduce the environmental footprint without compromising performance. It delivers rapid strength development, excellent adhesion to a wide range of substrates (including metals, composites and plastics), and reliable durability in demanding hoofcare applications.

The bio-based formulation of Shubond supports sustainability goals while maintaining the proven structural bonding characteristics hoofcare professionals expect from the Shubond range.

BIO-BASED

LOW ODOUR

25% LESS HEAT

KEY FEATURES

- Minimal odour
- No flammable labelling
- Non-sag formulation
- Structural lap shear strength
- Impact toughened formulation
- 25% less heat compared to standard acrylic glues
- More flexible
- Tough and impact resistant bond

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TYPICAL PHYSICAL PROPERTIES

UNCURED

PROPERTIES	PART A	PART B
Chemistry	Acrylic	Peroxide
Viscosity @ 10 s ¹	150,000	73,000
Density / G ML ¹	1.0	1.2
Mix ratio by volume	10	1
Mix ratio by weight	10	1.2

MIXED

PROPERTIES	SHUBOND BIO BASED
Colour	White
Working time @ 23°	2 mins
Handling time (minimum time to achieve >0.4 MPa overlap shear strength) @ 23°	5–7 mins
Time to reach peak exotherm @ 23° (6g mass)	3–6 mins

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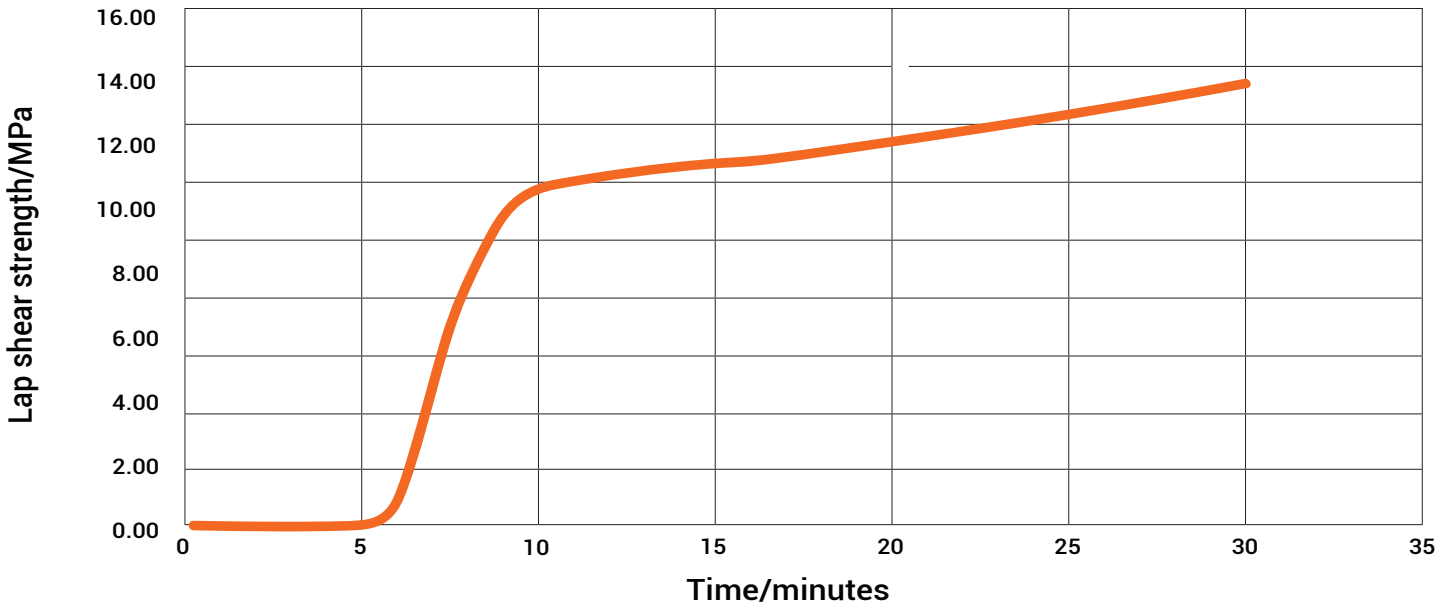
STRENGTH BUILDUP

Overlap shear specimens of aluminium were bonded with overlap dimensions of 12.5 x 25 x 0.5 mm (length x width x thickness). Lap shear specimens were pulled at regular time intervals



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TYPICAL PERFORMANCE CHARACTERISTICS

Overlap Shear Strength – in accordance with ISO4587

Overlap shear specimens were bonded with overlap dimensions of 12.5 x 25 x 0.5 mm (length x width x thickness). Each specimen was allowed to cure for 3 days @ 20oC 50%RH before being pulled apart at a rate of 6mm/min – for metals and 50mm/min for plastics and composites.

SUBSTRATE	SURFACE PREP.	BOND LINE THICKNESS / (mm)	LAP SHEAR STRENGTH / MPa	FAILURE MODE
Aluminium (Grade 6082)	IPA	0.5	13.0	CF
Anodised Aluminium (Grade: E6 EV1)	IPA	0.5	12.0	CF
Stainless Steel (Grade: 1.4301)	IPA	0.5	12.0	CF
Mild Steel (Grade: DC04)	IPA	0.5	12.0	CF
Powder Coat Steel	IPA	0.5	12.0	CF
E-Galvanised Steel (Grade: DC01 ZE 25/25)	IPA	0.5	13.0	CF
FRP - Glass/epoxy (Grade: FR4)	IPA Abraded*	0.5 / 0.5	6.0 / 13.0	AF / GF
FRP - Glass/Polyester	IPA Abraded*	0.5 / 0.5	3.0 / 7.0	AF / SF
PMMA	IPA Abraded*	0.5 / 0.5	6.0 / 6.0	SF / SF
Polycarbonate	IPA Abraded*	0.5 / 0.5	2.0 / 8.0	SCF / SF
ABS	IPA	0.5	7.0	SF
PVC	IPA Abraded*	0.5 / 0.5	3.0 / 8.0	AF / SF

IPA: Isopropyl alcohol, CF: Cohesive failure, AF: Adhesive Failure, SF: Substrate Failure, SCF: Superficial cohesive failure
*Abraded (120g) = Abrade with 120 grit pad then clean with IPA

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TENSILE PROPERTIES - IN ACCORDANCE WITH ASTM D638

Tensile properties measured on 3mm thick dumbbell speciments at a rate of 5mm/min.

PROPERTIES	VALUE
Tensile Strength at Break [MPa]	7.70
Percentage Elongation at Break [%]	120

HARDNESS - TESTED IN ACCORDANCE WITH ASTM D2240

Shore D hardness measured on a 7mm thick sample of cured adhesive.

PROPERTIES	VALUE
Shore D Hardness	55

NOTE ON AIR INHIBATION

Unlike traditional methyl methacrylate (MMA) adhesives, low odour formulations can sometimes leave a 'tacky/sticky' surface. This is due to a process known as air inhibition, in which oxygen can inhibit or slow the cure of these adhesives. This 'tacky/sticky' surface can be minimised by reducing the area exposed to air. If exposed edges cannot be avoided then under most conditions the 'tackiness' will fade over a short amount of time.

DISCLAIMER AND HEALTH AND SAFETY

Disclaimer: The variability of materials, substrates and conditions of use is such that no warranty of their functionality for a specific application can be deduced from this information, written recommendation or any other type of suggestion offered. Each user has the responsibility to complete adequate evaluations on the efficacy of the materials offered by Glue-U Adhesives BV of its products, services, recommendations and suggestions for the specific application need, and must accomplish sufficient testing to ascertain that the final product will be safe and sound for the final intent of the end user.

Health and safety: Refer to Safety Data Sheet (SDS) for further information. Apply the usual industrial hygiene.

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