



HIGH GRAB

General-purpose high strength adhesive

BigBond High Grab is a very high strength, high viscosity single-component MS Polymer adhesive. It is suitable for general purpose use in such industries as Auto; Marine; Construction; Transport; Plastics and Composites fabrication.

- Safe to use - contains no isocyanates, halogens, acids, alkalis or solvents.
- Minimal health and safety considerations.
- Very high strength and hardness on nearly all surfaces.
- Excellent initial grab – fast cure rate.
- Highly resistant to all weathers, sea water, etc.
- Excellent adhesion on porous surfaces, most metals and most plastics (except polyolefins).
- High performance mechanical properties.
- Elastomeric bond – movement accommodation up to 20%.
- Straightforward application, even in adverse conditions.
- No bubble formation within sealant (in high temperature and humidity applications).
- Easy to tool and finish.
- Easy application, even in adverse conditions.
- Colour stable and UV resistant.
- Ecological advantages – free of isocyanates, solvents, halogens and acids.
- Wet on wet paintability.
- Minimal surface preparation time.

Applications:

- Structural bonding between metals, coated surfaces, most plastics (not polyolefins), and composites.
- Structural bonding in vibration constructions.
- Elastomeric bonding in cars, caravans, motorhomes, coaches, commercial vehicles, aerospace and transport.
- Powerful and safe bonding agent for general use in the Building and Construction industries.
- Connection joints in sheet metal fabrication.
- General use in the signmaking and retail display industry.

Shelf life: 12 months in unopened packaging in a cool and dry storage place at temperatures between 5°C and 25°C.

Technical Data:

Base:	Hybrid polymer
Consistency:	Stable Paste
Curing System:	Moisture Cure
Skin Formation:	5 mins (@ 20°C/65% relative humidity)
Curing Rate:	3-4mm/24h (20°C/65% R.H.)
Hardness:	68 ± 5 Shore A

Shrink:	<2%
Specific Gravity:	1.52 gm/ml
Temperature Resistance:	-40°C to 90°C
Elongated at break:	250% (DIN 53504)
Elasticity Modulus 100%:	2.0 N/mm ² (DIN 53504)
Shear Strength:	>2.0 N/mm ² (DIN 53504)
Substrate	AlMgSi1
Thickness	2mm
Shear velocity	10mm/min
Breaking strength:	>2.8N/ mm ² (DIN 53504)
Max. Allowed Distortion:	20%

Chemical Resistance:

Good:	Poor:
Water, inc. sea water.	Aromatic solvents
Aliphatic solvents	Concentrated acids
Mineral oils	Chlorinated hydrogen
Grease	
Diluted inorganic acids/alkalis	

Application:

Surface should be clean, dry and free from dust, grease and any other contaminants. Non-porous surfaces may be primed with BigBond Activator.

Apply with a manual or pneumatic caulking gun - application temperature 1°C to 30°C

Clean with white spirits immediately after application.

Finishing: Smooth joint with soapy solution before skin forms.

BigBond High Grab may be overpainted, but due to the wide variety of paints and varnishes available we strongly recommend a compatibility test prior to application. The drying time of alkyd resin paints may increase.

Important Notice:

Data contained in this document is for information only and is believed to be reliable. BigHead Bonding Fasteners Ltd. (BBFL) can accept no responsibility whatsoever for results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability of the product for any specific purpose. Before using this product, please ensure that you have been supplied with and have carefully read the following information:

- The hazard label (complying with latest CDG/CPL regulations) applied to the container.
- The relevant MSDS (Material Safety Data Sheet) for this product.

