



maxbond RAPID CURE POLYURETHANE ADHESIVE

Description

maxbond Rapid Cure Polyurethane adhesive is a 1-part, solvent-free, translucent, cross linking waterproof (EN 204 D4 standard) polyurethane adhesive for all types of construction bonding applications. Maxbond Rapid Cure is especially suitable for forming a rapid bond with wood and other construction materials in high mechanical resistance assembly joinery and outdoor applications due to its excellent resistance to water, temperature extremes, weathering and aging.

Benefits

- EN 204 D4 level waterproof bond
- Rapid curing
- Translucent for invisible bond line
- Bonds to most surfaces
- Strong bond
- Bonds to metal as well as timber
- Non drip
- Paintable
- Very low foaming
- Solvent free - Odourless
- Heat resistant
- Resistant to chemicals
- Excellent exterior resistance

Uses

- Cabinet making
- Carpet grip strip bonding
- Marine and boatbuilding
- Bonding timber to metal

- Rigid bonding of any surfaces
- Bonding decking and frames
- Bonding metal strips to walls
- Repairing timber assemblies
- Bonding sheet products to frames (e.g. plasterboard)
- Stair nosing and general stair construction
- Bonding corner connections in metal doors, windows and facades
- Bonding synthetic materials such as PVC, fibre-reinforced plastics etc (pretest recommended)
- Bonding of insulating materials including expanded polystyrene and polyurethane sheets

Compatible Substrates

Timber & decking	Plywood
MDF	Metal
EPS polystyrene	Fiberglass
Plastic (pretest)	Rubber (pretest)
Particleboard	Plasterboard

Surface Preparation

All surfaces must be clean, dry (except for non-porous application indicated below), sound and free of dust, oil, old sealant or other contamination. Lightly contaminated surfaces should be wiped with Isopropyl Alcohol (IPA) using the 2-rag wipe method. Apply IPA to a clean lint-free cloth and wipe onto the surface to be cleaned to solubilise and remove the majority of the contaminant. A clean dry cloth should then be applied to remove remaining contamination and dry the surface. Ensure wet cleaner is not allowed to dry on surface.

For more heavily contaminated surfaces or where the IPA does not remove the contaminant, a generic wax and grease remover should be applied using the same 2-

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rag wipe method. Once this has been completed the surface should be given a final clean with IPA using the 2-rag wipe method to ensure the surface is adequately prepared. Adhesion to metals and some surface finishes can be further improved by light abrasion prior to cleaning with IPA using the 2 rag-wipe method. Manufacturers of plastics should be consulted about suitable cleaning solvents. Adhesion to plastics should be pre-tested.

Performance Summary

Property	Data
Sag	Nil
Open time – Dry substrate	8 minutes @ 23°C
Open time – Wet sprayed	5 minutes @ 23°C
Clamping time	60 minutes
Full bond strength	After 24 hours @ 23°C
Service Temperature	-40°C to 100°C
Solid content	100% (solvent free)
Water resistance	EN 204 D4 level
Specific Gravity	ca. 1.13
Shear strength (DIN EN 204 D1)	>10N/mm ²
Shear strength (DIN EN 204 D4)	>4N/mm ²

Limitations

- Do not apply at temperatures below 5°C.
- Do not use on applications where the joints will be permanently immersed in water
- Must be clamped for maximum strength
- Not suitable for polyethylene, polypropylene or Teflon surfaces.
- Cure time will be increased when used where no moisture may reach adhesive, e.g. between two non porous surfaces.

- Not a flexible adhesive, designed for rigid bonding to hold surfaces together without flex.
- Shelf life / storage: 12 months in unopened cartridges in cool, dry conditions.

Application

Ensure that temperature is above 5°C. Apply adhesive to one surface only. Bring both surfaces together and clamp. Clamping bond will ensure maximum bond strength is formed which can be 5-10 times that of unclamped bond. Clamp for at least 60 minutes after application at 23°C, longer in cold or low humidity conditions. Note: when surfaces do not meet the product will foam slightly and fill the cavity. Excess adhesive may foam from the edge of the joint and require trimming. To increase cure speed, slightly moisten surfaces prior to application of adhesive.

Cure Time

Keep clamped for 60 minutes minimum, preferably longer. Strong bond will form by this time, however, ultimate bond strength usually develops in 24 hours at 23°C.

Clean Up

Use Fulafoam Cleaner, mineral spirit, acetone or other alcohol-based solvent to clean up wet product. Dry product must be removed mechanically. Cured product can be sanded.

Safety Information

This product is considered hazardous under the classification of GHS WHS Version 3. Further safety information is available on the product SDS. Avoid contact with skin and

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eyes. Store in a dry place below 30°C. Keep out of reach of children. An SDS is available from the H.B. Fuller representative in your state, HB Fuller Australia customer service, or downloadable from the HB Fuller web site, www.hbfuller.com.au.

Disclaimer

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