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

<table>
<thead>
<tr>
<th>Timber &amp; decking</th>
<th>Plywood</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDF</td>
<td>Metal</td>
</tr>
<tr>
<td>EPS polystyrene</td>
<td>Fiberglass</td>
</tr>
<tr>
<td>Plastic (pretest)</td>
<td>Rubber (pretest)</td>
</tr>
<tr>
<td>Particleboard</td>
<td>Plasterboard</td>
</tr>
</tbody>
</table>

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-
H.B. Fuller

TECHNICAL DATA SHEET 技术资料

rag time. 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sag</td>
<td>Nil</td>
</tr>
<tr>
<td>Open time – Dry substrate</td>
<td>8 minutes @ 23°C</td>
</tr>
<tr>
<td>Open time – Wet sprayed</td>
<td>5 minutes @ 23°C</td>
</tr>
<tr>
<td>Clamping time</td>
<td>60 minutes</td>
</tr>
<tr>
<td>Full bond strength</td>
<td>After 24 hours @ 23°C</td>
</tr>
<tr>
<td>Service Temperature</td>
<td>-40°C to 100°C</td>
</tr>
<tr>
<td>Solid content</td>
<td>100% (solvent free)</td>
</tr>
<tr>
<td>Water resistance</td>
<td>EN 204 D4 level</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>ca. 1.13</td>
</tr>
<tr>
<td>Shear strength (DIN EN 204 D1)</td>
<td>&gt;10N/mm²</td>
</tr>
<tr>
<td>Shear strength (DIN EN 204 D4)</td>
<td>&gt;4N/mm²</td>
</tr>
</tbody>
</table>

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

Our Focus is Clear. Perfecting Adhesives.

IMPORTANT: Information, specifications, procedures and recommendations provided ("Information") are based on our experience and we believe this to be accurate. No representation, guarantee or warranty is made as to the accuracy or completeness of the information or that use of the product will avoid losses or damages or give desired results. It is purchaser's sole responsibility to test and determine the suitability of any product for the intended use. Tests should be repeated if materials or conditions change in any way. No employee, distributor or agent has any right to change these facts and offer a guarantee of performance.

NOTE TO USER: by ordering/receiving product you accept the H.B. Fuller General Terms and Conditions of Sale applicable in the region. Please request a copy if you have not received these. These Terms and Conditions contain disclaimers of implied warranties (including but not limited to disclaiming warranties of fitness for a particular purpose) and limits of liability. All other terms are rejected. In any event, the total aggregate liability of H.B. Fuller for any claim or series of related claims however arising, in contract, tort (including negligence), breach of statutory duty, misrepresentation, strict liability or otherwise, is limited to replacement of affected products or refund of the purchase price for affected products. H.B. Fuller shall not be liable for loss of profit, loss of margin, loss of contract, loss of business, loss of goodwill or any indirect or consequential losses arising out of or in connection with product supply.

Nothing in any term shall operate to exclude or limit H.B. Fuller’s liability for fraud, gross negligence or for death or personal injury caused by negligence or for breach of any mandatory implied terms.

Australia
Tel: +61 1800 423 855
customer.service@hbfuller.com
China & Hong Kong
Tel: +86 20 82068291
cs.china@hbfuller.com
Indonesia
Tel: +62-21-5307232/33

Korea
Tel: +82 2 786 8296
cskorea@hbfuller.com

Malaysia
Tel: +603 3345 5200
New Zealand
Tel: +64 800 555 072
customer.service@hbfuller.com
Philippines
Tel: +63 2 5194073
Taiwan
Tel: +886 2 26033385
Thailand
Tel: +66 2 3757442
Vietnam
Tel: +84 8 2225588

Tel: +84 8 2225588
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

This technical data sheet summarises at the date of issue to the best technical knowledge of HB Fuller Australia. Since HB Fuller Australia cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this technical data sheet in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for the products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.