



TECHNICAL DATA SHEET

WOOD WELD PU

EXTREME PERFORMANCE

Construction Chemicals **WOOD WELD PU** is a single component, solvent free, moisture curing polyurethane adhesive. **WOOD WELD PU** will bond most building materials to almost any other material; it is totally waterproof and conforms to D4 specification.

TYPICAL USES

WOOD WELD PU is a rapid curing, gap filling, polyurethane adhesive which can be used to bond all timbers (even wet or dry timber), concrete, polyurethane foam, expanded polystyrene, and other porous and non porous substrates. Once polymerised **WOOD WELD PU** is totally waterproof. **WOOD WELD PU** cures by mass therefore offers a high initial bond with a very fast handling strength.

WOOD WELD PU can also be used for:

- All joinery and shop fitting applications in particular oak framing, stair case building or where extra bond strength and speed is required.
- Bonding natural timber and laminate floor boarding, including bonding to asphalt.
- Can be used on resinous timber with no loss of bond strength.
- Ideal for pre treated timber when bonding with PVA is difficult.
- Boat building.
- Building applications, bonding bricks etc.
- Will also bond plastics, metals, MDF. The list is endless

BENEFITS OF USING WOOD WELD

- | | |
|------------------------|--|
| • Thixotropic | It stays where you put it, less mess |
| • Rapid cure | Less cramping time, saves labour costs |
| • Easy to use | Standard 310ml cartridge |
| • High temp resistance | Can be used near ovens and light boxes |
| • 10min and 30min cure | Flexibility of adhesive when assembling |

METHOD OF APPLICATION

- Ensure surfaces to be bonded are clean and free from grease, dust and any other contamination.
- To ensure best results when cleaning use Cleaner 3 (Flammable) allow solvent to evaporate before bonding.
- Dry porous materials usually contain sufficient moisture in order to create curing.
- Some metals i.e. untreated aluminium and galvanised steel require over spray with water in order to achieve a quick cure.
- Assemble before 5 minutes and apply an even pressure across the whole bond area whilst the bond cures.
- Allow the bond to fully cure usually 5-10mins.
- Allow excess adhesive to fully cure then trim off with a sharp edge, do not try to wipe of uncured adhesive as this will only make final cleaning more difficult.



HOW WOOD WELD PU WORKS

WOOD WELD PU is a moisture curing adhesive, therefore as soon as it is dispensed from the cartridge it is exposed to moisture and begins to slightly expand, when the timber is cramped together this expansion continues and forces the adhesive into the grain of the timber at the same time as curing. **This action welds the timber together extremely fast giving a joint that is stronger than the timber.**

EASY TO USE

1. **SELECT YOUR TIMBER**
2. **APPLY A SMALL AMOUNT OF WOOD WELD PU**
3. **CRAMP YOUR JOINT**
4. **WAIT 10 MINUTES**
5. **UNDO CRAMP, JOINT BONDED**
6. **TRIM OFF EXCESS ADHESIVE WHEN CURED**

Chemical Base
Solids Content
Appearance
viscosity Brookfield RVTI 20uC

Polyurethane
100%
Translucent
Thixotropic paste V = 5;
200,000mPas, V 50; 55,000 mPas

Density
Skin formation time
Flammability
Application temp
Dilution solvent

1.03 @ 20 deg c
5 mins @ 23 deg c
N/A
10-25 deg c
N/A

Packaging

WOOD WELD PU is available in 310m cartridges. Packed in boxes of 12.

Stored in unopened containers between 5⁰C and 25⁰C. WOOD WELD PU has a maximum shelf life of 12 months.

**TODAY'S CUSTOMERS DEMAND PRODUCTS
THAT WILL BE RELIABLE IN ALL BONDING SITUATIONS.**

WOOD WELD PU IS THE BEST ADHESIVE YOU WILL EVER USE!

This Technical Data Sheet does not constitute a Material Safety Data Sheet. Before using this product ensure you have read and fully understood **WOOD WELD PU** Material Safety Data Sheet. Information presented on this sheet is not intended as a formal specification and should be used as a guideline only. Every endeavour has been made to ensure the accuracy of the information contained herein but customers should conduct their own tests to confirm to themselves the suitability of the product. Therefore construction chemicals Limited cannot accept any loss or damage that may result from the use of this information.

PRODUCT SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product name: Woodweld PU
Company: Construction Chemicals (UK) Ltd
75 Town Green Street
Rothley
Leics LE7 7NW
Tel: 0116 2301955
Fax: 0116 2301944

2. COMPOSITION/INFORMATION OF INGREDIENTS

Ingredient	% by weight	CAS No.	Hazard symbol	R Phrases
Diphenylmethanediisocyanate Isomers, homologues	20-25	9016-87-9	Xn	R20-36/37/38-42

3. HAZARDS IDENTIFICATION

Irritating to Mucous membranes and skin. Xn harmful. Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation. Contains isocyanates

4. FIRST AID MEASURES

Inhalation: If aerosol or vapour has been inhaled in high concentrations take the patient into fresh air, keep warm and allow to rest. If there is difficulty in breathing medical advice is required.

Skin contact: Wash off immediately with plenty of soap and water.

Eye contact: Wash immediately with copious amounts of clean water. If irritation persists seek medical advice.

Ingestion: DO NOT induce vomiting. If patient vomits, turn to recovery position. Give water to drink. Seek medical advice.

5. FIRE FIGHTING MEASURES

Small fires: Use carbon dioxide, dry chemicals, sand DO NOT use water extinguishers

Large fires: Use foam or water fog. Keep containers cool by spraying with water. In case of a fire possible formation of carbon monoxide, nitrogen oxide, isocyanate vapour and traces of hydrogen cyanide.

6. ACCIDENTAL RELEASE MEASURES

Personal protection: Cover with wet fluid binding materials (sand, sawdust etc). Transfer to labelled open topped container. Keep open and wet for 7-14 days the waste can then be disposed of at approved landfill sites.

7. HANDLING AND STORAGE

Handling: Keep containers tightly closed and dry. Avoid temperatures below 10C or above 50C. During use, ensure efficient exhaust ventilation in the working area is required if the materials is being sprayed or heated above 50C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection/ventilation: Required in inadequate ventilated workplaces. Air fed masks are only suitable for spraying for short periods. For continuous production mechanical air extraction in a purpose designed booth is essential.

Eye protection: Goggles

Hand protection: Gloves, PVC or nitrile are suitable.

Skin protection: Change contaminated clothing. Wash hands before breaks and at the end of work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Paste cream coloured
Odour:	Light
Viscosity:	Approx 15000 cos @20C
Specific gravity:	Approx 1.03 @ 20C
Miscibility in water:	Insoluble
Ignition temperature:	>200C
Decomposition temperature:	>140C

10. STABILITY AND REACTIVITY

Thermal decomposition: Polymerises about 260C with evolution of CO₂.

Hazardous decomposition: No hazardous decomposition products when stored and handled correctly. When heated about 600C the solvent will decompose evolving carbon monoxide. Hydrogen chloride and small quantities of phosgene.

Hazardous reactions: Exothermic reaction with amines, alcohol, acids and alkali. Reacts with water forming CO₂. Closed containers may rupture owing to increase in pressure

11. TOXICOLOGICAL INFORMATION

Acute toxicity. Primary irritant effect on the skin. Sensitisation possible through inhalation. Irritating effect on the eyes.

12. ECOLOGICAL INFORMATION

Mobility. Water hazards class 1 (German regulation) – self assessment; slightly hazardous for water. Do not allow product to reach ground water, water course or sewage system.

13. DISPOSAL RECOMMENDATIONS

In accordance with Local Authority. Incinerate only in officially approved incinerator. Emptied containers should be disposed of only after the product remaining on the walls of the drum has been neutralised with aqueous ammonia and the hazard label removed.

14. TRANSPORT INFORMATION

Not classified as dangerous for carriage. Keep separated from foodstuffs.

15. REGULATORY INFORMATION

CPL Labelling: Symbol: Xn; harmful

Hazard: n/a

Contain: isocyanates: See information supplied by supplier.

Risk Phrases: Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation.

Safety Phrases: Avoid contact with skin, wash immediately with plenty of soap and water. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of insufficient ventilation, wear suitable respiratory equipment. In case of accident or if unwell, seek medical advice immediately (show label where possible)

16. OTHER INFORMATION

The data contained in this Safety Data Sheet has been supplied as required by the Chemicals (Hazard Identification and Packaging) Regulations 1993, as amended, for the purpose of protecting the health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.