



Product Number: 141 Firobond Ultra Adhesive (FUA)

Description:

Firobond Ultra Adhesive (FUA) is a fire retardant, high performance laminating adhesive, specially developed for the bonding of mineral wool insulation to inorganic board materials, including magnesium oxide/cement boards, and laminated boards. All types of wood joists and wood rebated products MDF chipboard, plywood etc.

Material Specification:

This product is a Water based polymer system with inert fillers

| | |
|-------------------|---|
| Colour: | White |
| Specific Gravity: | 1.40 to 1.43g/cm ³ |
| Tack Free Time: | 10 - 20 Minutes depending on the thickness, room temperature and humidity |
| Full Cure: | Approximately 24 Hours. |

Storage:

Six months in unopened original packaging.
Store between +5°C to +30°C.
Protect from frost.

Hazards:

None, FUA Adhesive is a water-based polymer adhesive. Take precautions as with other water based adhesives. Once dry, it is not affected by moisture.

SAFETY DATA SHEET



ENVIROGRAF®

HS141-02-2019

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This product comprises of the following materials and therefore is supported by Health & Safety Data Sheets:

- Appendix 11 (FUA Adhesive)

*The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.

HEALTH & SAFETY INFORMATION SHEET

APPENDIX 11

Firobond Ultra Adhesive (FUA)

14th April 2015 ISSUE 2

1. IDENTIFICATION OF THE PREPARATION AND COMPANY

PRODUCT NAME: Firobond Ultra Adhesive
MANUFACTURER/SUPPLIER: Envirograf
ADDRESS: Envirograf House, Barfreestone, Nr Dover, Kent, CT15 7JG
TELEPHONE / FAX / EMAIL: 01304 842555 01304 842666 sales@envirograf.com
EMERGENCY PHONE NUMBER: 01304 842555 (Monday to Friday 8.30 – 5.30)

2. HAZARDS IDENTIFICATION

HEALTH EFFECTS:
SKIN: May cause slight irritation on prolonged / repeated contact.
EYES: May cause some irritation.
INHALATION: No hazard under normal conditions of use.
INGESTION: Low toxicity.
PHYSICAL/CHEMICAL EFFECTS: Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION: Aqueous (emulsion) polymer system

4. FIRST AID MEASURES

SKIN CONTACT: Remove contaminated clothing and wash contaminated skin with soap and water.
EYE CONTACT: Wash with water for several minutes. If irritation persists seek medical advice.
INHALATION: Remove the casualty to fresh air.
INGESTION: Rinse out mouth with water and if conscious drink plenty of water. Seek medical attention.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Foam, carbon dioxide, powder, and water spray.
EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS: None known.
SPECIAL EXPOSURE HAZARDS: None known
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Chemical protection suit / gloves / boots and self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

| | |
|-----------------------------------|--|
| PERSONAL PRECAUTIONS: | Use personal protection equipment. |
| ENVIRONMENTAL PRECAUTIONS: | Do not dispose of into surface water or sanitary sewer system. |
| METHODS FOR CLEANING UP: | Scrape up excess and dispose of at an approved site. |

7. HANDLING AND STORAGE

| | |
|------------------------------|---|
| HANDLING PRECAUTIONS: | Avoid contact with skin and eyes. |
| STORAGE CONDITIONS: | Store in closed containers between + 5°C and + 30°C in dry conditions. Avoid extremes of temperature. Protect from frost. |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|---------------------------------------|------------------------------------|
| CONTROL PARAMETERS: | Not applicable. |
| ENGINEERING MEASURES: | |
| PERSONAL PROTECTION EQUIPMENT: | |
| RESPIRATORY PROTECTION: | Not applicable. |
| HAND PROTECTION: | Gloves. |
| EYE PROTECTION: | Goggles. |
| SKIN AND BODY PROTECTION: | Wear suitable protective clothing. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------------------------|-------------------------------|
| COLOUR: | White. |
| FORM: | High viscosity gel / paste. |
| ODOUR: | Slight. |
| PH AS SUPPLIED: | 7.0 to 8.5 |
| BOILING POINT/RANGE: | Not applicable. |
| MELTING POINT/RANGE: | Not applicable. |
| FLASH POINT: | Not applicable. |
| FLAMMABILITY (SOLID/GAS) | Not applicable. |
| AUTOIGNITION TEMPERATURE: | Not applicable. |
| EXPLOSIVE PROPERTIES: | Not applicable. |
| OXIDISING PROPERTIES: | Not applicable. |
| VAPOUR PRESSURE: | Not applicable. |
| BULK DENSITY: | 1.40 to 1.43g/cm ³ |
| SOLUBILITY: | |
| WATER SOLUBILITY: | Miscible. |
| PARTITION COEFFICIENT: | Not applicable. |
| (n-octanol/water) | |
| OTHER DATA | |

10. STABILITY AND REACTIVITY

| | |
|--|---|
| STABILITY: | Stable under normal conditions. |
| CONDITIONS TO AVOID: | Avoid extremes of temperature especially frost and freezing conditions. |
| MATERIALS TO AVOID: | None, under normal conditions of use. |
| HAZARDOUS DECOMPOSITION PRODUCTS: | No decomposition if stored and applied as directed. |

11. TOXICOLOGICAL INFORMATION

Not applicable.

12. ECOLOGICAL INFORMATION

Not applicable.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations at approved sites.

14. TRANSPORT INFORMATION

| | |
|----------------------|---------------------------------|
| UK ROAD/RAIL: | Not applicable. None hazardous. |
| IMDG: | Not applicable. None hazardous. |
| ICAO: | Not applicable. None hazardous. |
| ADR: | Not applicable. None hazardous. |

15. REGULATORY INFORMATION

SUPPLY CLASSIFICATION:

HAZARD SYMBOL(S): None.

RISK PHRASES: Irritating to eyes and skin.

SAFETY PHRASES: Avoid contact with skin and eyes.

Wear suitable protective clothing, gloves and eye/face protection.

16. OTHER INFORMATION

RECOMMENDED USE: Adhesive for use with fire retardant / resistant assemblies.

FURTHER INFORMATION: Consult technical data sheet.

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APPLICATION DATA SHEET



ENVIROGRAF®

AP141-02-2019

Product Number: 141 Firobond Ultra Adhesive (FUA)

Description:

Firobond Ultra Adhesive (FUA) is a fire retardant, high performance laminating adhesive, specially developed for the bonding of mineral wool insulation to inorganic board materials, including magnesium oxide/cement boards, and laminated boards. All types of wood joists and wood rebated products MDF chipboard, plywood etc.

Firobond Ultra Adhesive (FUA) is designed to produce a strong, durable bond for the manufacture of internal partition walls, modules, doors, and partitions; and for laminating all types of wood joints and wood-related products, such as MDF, chipboard, plywood, etc. It was also designed and developed to bond sponge and mineral wool to inorganic boards and magnesium oxide/cement boards; and to give a strong, durable bond for the assembly of fire doors and standard doors, partitioning, and any timber assembly used as a fire-rated product. Once cured, the bond will withstand high impact and impart stiffness to the bonded material. The fire retardant properties enable manufacturers to produce systems that can meet two hours fire protection specification.

Application:

Firobond Ultra Adhesive (FUA) is thixotropic, which facilitates easy application, and it is designed to minimise absorption into porous substrates.

Firobond Ultra Adhesive (FUA) can be applied by an extrusion nozzle or bead head by a pump system for fast production rates. Available in a 310ml tube to fit a standard mastic gun, or containers of ½ kg, 1 kg 2½ kg, 5 kg, and 20 kg.

Firobond Ultra Adhesive (FUA) should be applied to the board material at a coating rate of 100g/m² [10m²/kg] to 250g/m² [4m²/kg] depending on the porosity of the substrate. Mineral wool should be consolidated into the adhesive within 5 to 10 minutes. The panel should be constructed immediately and placed under pressure to consolidate the bond, thus ensuring pressure is applied evenly across the panel. Can be applied to wood joints, used for applying Envirograf® intumescent paper, material, card, and veneers to wood, plywood etc. Also used to adhere veneers to MDF, plywood, etc, giving a fire-resistant bond.

Initial bond: 10 to 20 minutes
Tack life: 10 minutes
Full cure: 24 hours

Cleaning:

Tools and application equipment should be cleaned with water whilst the adhesive is still wet.