



# ENVIROGRAF®

## Technical Data Sheet Product 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/m<sup>2</sup> [10m<sup>2</sup>/kg] to 250g/m<sup>2</sup> [4m<sup>2</sup>/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:** within 24 hours

### CLEANING

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

### MATERIALS SPECIFICATION

**Base:** Inorganic Solution  
**Solids:** 65-68%  
**Viscosity:** 20.000 - 40.000 cps @ 20°C  
**Colour:** Beige  
**Tack Life:** 10 minutes  
**Coverage:** 100g/m<sup>2</sup> [10m<sup>2</sup>/kg] to 250g/m<sup>2</sup> [4m<sup>2</sup>/kg] (depending on the porosity of the substrate)  
**Cleaner:** Water when still wet  
**Shelf Life:** 6 months if stored at between 5°C and 25°C