



# PU FAST SET

Rapid-setting structural bonding adhesive

**PU FAST SET** is a two-component, odourless, thixotropic polyurethane adhesive that has a high early grab characteristic and fast cure at room temperature. Under normal circumstances the mixed material will reach 40% of its final holding strength within 30 minutes at 18-20°C. Dependant upon conditions, it can take up to 24 hours to achieve full strength and for this reason it is not advisable to put the material under heavy load too early after the initial bond has cured. It is specially designed for the structural bonding of a wide range of materials such as thermoplastic materials, GRP, fibrous and other composites, steel, aluminium, concrete, wood and glass.

### Processing :

Surfaces should be cleaned with a degreasing agent to remove all dust, dirt, oil and grease. For pre-treatment of thermoplastics, the use of light ethers or iso-propanol is recommended. Caution is required however, as use of strong solvents can damage the plastic's surface. For other surfaces, use acetone or trichlorethylene. **Petrol or any other solvents should never be used.** Where possible, for maximum strength use mechanical abrading to remove paint from the surfaces. The pre-treated area must be dry before applying the adhesive.

### Application:

**PU FAST SET** is available in a 50ml twinpack cartridge for use in an applicator gun: cartridges can also be fed utilising specialist pneumatic tools as required.

The two components are mixed through the one-time mixing nozzle supplied. Because of the products' rapid cure characteristics sufficient work should be prepared in advance to eliminate excessive waste. The mixture is applied directly from the mixer nozzle onto the pre-treated dry surface only; Use sparingly; the optimal depth of film for highest performance is between 0.2 mm and 1.0mm. Assemble the components within 30 seconds of application and apply steady pressure over the entire bonding area during the initial cure period.

After initial assembly and cure period of approx. 90 seconds the bond will produce sufficient adhesion for most applications to be self-supporting. Due to variations of material type, local temperature and humidity it is not possible to give specific adhesion or final cure-time data; the adhesive performance however, increases uniformly over a total cure time of some 24 hours.

### Product storage:

**PU FAST SET** has a shelf life of 9 months (un-opened) from the date of manufacture, provided that it is stored in a cool and dry place, out of direct sunlight, between 15° C and 25 °C. Expiry date is indicated on the label.

The cartridges should be kept in a sealed plastic bag and protected from light and heat, inside the original packaging. Once opened, the product shelf life may be reduced; always remove the last nozzle used and replace with the original end-plug supplied.

*NB. ensure the cleaned end-plug is replaced in the same orientation as supplied on the original cartridge; this can be achieved by marking the position of the plug prior to initial removal.*

### Product handling precautions:

PU products are generally quite harmless to handle providing normal precautions are observed when handling chemicals. Please read the **PU FAST SET** MSDS (Material Safety Data Sheet for further information). Rubber or plastic gloves and eye protection are recommended. After each working period, hands should be thoroughly cleaned in soap and warm water. Solvents should be avoided. Adequate ventilation of the working area is recommended although **PU FAST SET** has no noticeable odour.

Size /Packaging:	50ml twinpack
Colour:	Black (once mixed)
Chemical description:	Urethane Polyol Blend
Stability:	Very good
Temp. stability:	- 40°C to + 80°C
Working time:	45-60 seconds maximum
Initial cure time:	90 seconds
Total curing time:	24 hours maximum

### IMPORTANT NOTICES:

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Before using this product please ensure you have been supplied with & carefully read the following important information:

1. The Hazard label (complying with the latest CDG/CPL regulations) applied to the container.
2. The relevant MSDS (Material Safety Data Sheet) for this product.

