

# Lamination (A7561)

## Solvent-Free Panel Lamination Adhesive (1K MCPU)



Apollo Lamination (A7561) was developed specifically for the manufacture of a wide range of panels, including doors, cold stores, caravans and SIPs. It is a solvent-free one-component moisture-curing polyurethane adhesive (1K MCPU) that offers the manufacturer many benefits:

- Extremely versatile
- Minimises production costs
- Reduces equipment costs
- Complete peace of mind
- Green credentials

### Extremely versatile: securely bonds an extensive range of construction products and materials

The versatility of Apollo Lamination (A7561) helps to reduce the number of products you need to store at your factory. Apollo Lamination (A7561) securely bonds a wide range of construction products and materials, including most metals, timber, most types of insulation (EPS, PIR and XPS) and unplasticised PVC (uPVC).

### Minimises production costs: single-component adhesive with a low coat-weight and long open-time

Apollo Lamination (A7561) allows you to reduce production costs by minimising manual production time. It is a single-component adhesive that does not require mixing. This also eliminates the risk of incorrect mixing through human error, whilst its low coat-weight ensures an extremely economical usage rate. Apollo Lamination (A7561) has an open-time of 25 minutes, which is sufficient for you to complete essential tasks, without being too excessive.

### Reduces equipment costs: developed specifically for manual application

Equipment costs are a key concern for any manufacturer, especially given the current economic climate. Apollo Lamination (A7561) eliminates the need for you to invest in expensive equipment because it has been developed specifically for manual application. The adhesive is simple to apply with a hand-roller, trowel, scraper or an automatic bead-applicator.

### Gives you complete peace of mind: due to its high-strength durable weatherproof bond

At Apollo, we understand you need total confidence that the adhesive you are using can withstand extreme environmental conditions. Apollo Lamination (A7561) forms a high-strength durable weatherproof bond, which is resistant to water, extreme temperatures (-30-150°C) and even chemicals once fully cured. It also has excellent aging properties.

### Green credentials: solvent-free

Green issues are becoming increasingly important across all industries, and this trend is set to continue in the future. Apollo Lamination (A7561) is a solvent-free polyurethane adhesive, which helps you to meet a growing number of green issues. It also makes the product more pleasant for your employees to use, creating a more comfortable working environment.



### Instructions for use:

#### Substrate preparation/priming:

1. Ensure all surfaces to be bonded are clean and free from grease and other contaminants. Some grades of aluminium, galvanised steel and plastics may need priming.

#### Application:

1. Apply an even coat of the adhesive to one surface with a roller coater, trowel, scraper or an automatic bead-applicator.
2. The amount of adhesive required will vary according to the porosity/smoothness of the substrate and the method of application, but will be between 80-140g/m<sup>2</sup>.
3. Mist the adhesive with water once it has been applied (approximately 10% of water based on the adhesive coat-weight).
4. Assemble the panel and place under pressure within the open-time (25 minutes). Pressure is usually applied using a hydraulic press, vacuum table or bag press. The pressure required will depend on the nature of the substrates, but it is usually in the range of 0.5 to 0.9 bar.
5. Maintain pressure until the adhesive is sufficiently cured to

permit handling of the bonded item (75 minutes).

6. Full cure of the adhesive will not be achieved for 24 hours. Keep handling to a minimum during this time.

**NB: Metals should be stored in a warm environment prior to bonding in order to avoid the glue line chilling, which could lead to extended cure times. A test panel should always be prepared when using new materials in order to establish compatibility. One of the surfaces to be bonded must be porous/permeable.**

#### Packaging:

Apollo Lamination (A7561) comes supplied in a 20 litre plastic poly bottle for ease of pouring and disposal after use (sold as 22kg).



20 litre poly bottle

### Technical Data

Base	Polyurethane	Open-Time (20°C)	25 minutes
Appearance	Green	Cure-Time (20°C)	75 minutes. Full cure achieved after 24 hours
Application Temperature	5-30°C	Viscosity	3000cps
Temperature Resistance	-30-150°C	Storage	5-25°C
Coverage	7-10m <sup>2</sup> /kg	Environmental	See MSDS

### IMPORTANT NOTES:

**Temperature and timings:** All information on temperature and timings represent normal working conditions and is provided as a guideline only. However, please contact Apollo for advice if you wish to operate outside of these parameters.

**Storage and handling:** The product should be stored unopened in a dry condition at a temperature of 5-25°C. This will ensure the stated shelf-life. The adhesive will have a limited life once the container is opened.

**Disclaimer:** Apollo has taken care to ensure that the information provided in the literature is correct and up to date. However, it is not intended to form any part of a contract or provide a guarantee. Purchasers/intending purchasers should contact Apollo to check whether there have been any changes to the information since publication of the literature. Please ensure you have read the hazard labels and material safety data sheet before using this product.

Please contact your Apollo Account Manager or Apollo Distributor if you require further information on Apollo Adhesive Solutions or Apollo Construction Solutions and/or on our product range ([www.apolloadhesivesolutions.co.uk](http://www.apolloadhesivesolutions.co.uk) or [www.apolloconstructionsolutions.co.uk](http://www.apolloconstructionsolutions.co.uk)). If this specific product does not meet your exact requirements, please ask us about the product variations we offer or whether we can work with you to develop a bespoke solution (subject to volume).