

# **GAS-TEC 500**

## **HOT MELT APPLICATOR**

### **OPERATING INSTRUCTIONS**



Product Description:- GAS-TEC 500 Hotmelt Applicator  
Power Adhesives Ltd., Barking, England. ([www.tecbond.com](http://www.tecbond.com))

The Gas-Tec 500 is a Hotmelt Applicator specifically designed with the professional user in mind. It is powered by butane gas, and can be simply recharged using generally available cigarette lighter refill canisters.

**PLEASE READ CAREFULLY BEFORE  
ATTEMPTING OPERATION.**

## SAFETY FEATURES

Stainless steel internal gas tank-  
capable of withstanding great pressures  
integral blow-out valve, preventing any explosive gas release  
self-venting filling valve  
Catalytic combustion -  
flame-free heating system  
reaction products are carbon dioxide and water  
high efficiency (over 95% gas utilisation)  
Patented 'Magnetic Thermostat' for accurately controlling temperature  
Safety cut-out – operates if the temperature exceeds 260°C (500°F), cutting  
off the gas supply to the combustion chamber.  
Exhaust gas manifold for cooling exhaust gas temperature  
Integral piezo-electric ignition  
Integral hinged tool stand

## SAFETY INSTRUCTIONS

**Do not touch the nozzle, the exhaust ports, or molten adhesive with bare skin as they are hot - the operating temperature of the GAS-TEC 500 is approximately 200°C. Protective gloves should always be worn. Careless handling can cause skin burns.** If molten adhesive comes into contact with the skin immerse the affected area immediately in plenty of cold water. Seek medical advice if necessary.

In addition to the safety instructions herein, any statutory regulations, local fire insurance regulations, or other generally valid "regulations for accident prevention" must be complied with when using this tool.

- Never use the tool if it is damaged in any way.
- Do not use this tool whilst under the influence of drugs or alcohol.
- Do not use this tool in the vicinity of any heat-sensitive materials, or any flammable materials, liquids, or gases.
- When refilling, ensure that you switch off the tool before commencing, and that you keep away from sources of ignition.
- Ensure that the tool is held away from your face and body whilst igniting the gas.
- Always use the fold-away stand provided (see figure 1 ©) when resting the tool. Do not leave the tool on its side, as molten adhesive may flow back into the melt chamber, clogging the feed system.
- Do not leave the tool unattended whilst switched on.
- Do not expose to heat above 50°C (120°F), and avoid prolonged exposure to the sun.
- Do not try to open, puncture, or incinerate the gas tank.

PREPARING THE GUN FOR USE

**Note!** **The Gas-Tec 500 is shipped without gas.**

1. First fill the Gas-Tec 500 with butane gas (see figure 1 ①). We recommend the use of Braun, Calibri, Ronson, Rowenta, or other high-quality cigarette lighter fuel.

**Caution!** **When refilling, ensure that you switch off the tool before commencing, and that you keep away from sources of ignition.**

2. Load the tool with a high-performance *Tec-Bond*<sup>®</sup> 12mm adhesive stick (see figure 1 ②).
3. Switch on the gas by rotating the 'gas on/off' switch anticlockwise to position 'I' (see figure 1 ③).
4. Press the ignition button (see figure 1 ④) to ignite the gas. Gas ignition may be confirmed by the sound of the gas flow changing (to a mild 'roar'), or by a visible glow appearing in the 'Ignition View' window (see figure 1 ⑤) a few moments later. You may need to repeat pressing the ignition button to achieve ignition.

**Caution!** **Ensure that the tool is held away from your face and body whilst igniting the gas.**

**Note!** **The glow in the ignition view window will disappear once the tool has reached temperature (the thermostat valve will close, shutting off the gas supply). It will only reappear once the tool has cooled sufficiently for the thermostat gas valve to open.**

5. Allow at least 4 minutes for the tool to reach operational temperature (approx. 195°C/385°F).

**Caution!** **Always use the fold-away stand provided (see figure 1 ⑥) when resting the tool. Do not leave the tool on its side, as molten adhesive may flow back into the melt chamber, clogging the feed system. Do not leave the tool unattended whilst switched on.**

6. Adhesive may now be extruded through the tool by simply pulling the trigger (see figure 1 ⑦). Adhesive flow is controlled by regulating the pressure applied to the trigger, and is stopped by simply releasing it.

SWITCHING THE GUN OFF

When work with the tool has been completed, switch off the gas by rotating the 'gas on/off' switch clockwise to position 'O' (see figure 1 ⑧).

**Caution!** **Allow the tool to stand for a few minutes before packing away, as it may operate one last time (even though the switch is in the 'off' position); this is due to the tool consuming any gas retained between the switch and the thermostat valve.**

Figure 1



**TECHNICAL DATA**

Dimensions (L x H x W):	approx. 350 x 270 x 75 mm
Total weight:	approx. 750 g
Heating up time:	4 - 7 min.
Operating temperature:	approx. 200° C
Diameter of adhesive inlet:	11 - 12 mm

(use only genuine *TEC-BOND*® adhesive sticks)

## APPLICATIONS

### BOND SEAL ASSEMBLE INSULATE REINFORCE ENCAPSULATE REPAIR FILL - *INSTANTLY*

Suitable for use with most materials. Just apply *TEC-BOND*<sup>®</sup> hotmelt to one surface then press parts together and the bond is made. Can be used for bonding: Wood, Paper, Cardboard, Foam, Chipboard, Hardboard, some Plastics, Rubber, Glass, thin Metals, Ceramics, Leather, Fabrics and many more.

The GAS-TEC 500 is simplicity itself. To operate just turn on the gas, press the ignition switch, and the gun will be ready for use in approximately 5 minutes. Glue sticks can be fed continuously through the back of the gun. Use only genuine *TEC-BOND*<sup>®</sup> high performance glue sticks.

## APPLICATION NOTES

As with all adhesives, performance depends on conditions of use. Suggestions or recommendations contained herein are for guidance only, since actual conditions of use are outside the supplier's control.

- Ensure that the surfaces to be bonded are dry, free from dust, grease, and loose particles.
- Apply adhesive to one surface only. Bring the two surfaces together immediately, quickly making any further adjustments. Hold the joint for 20 - 30 seconds to complete the bond.
- When gluing dissimilar materials, apply the adhesive to the least heat conductive of the two.
- On materials that are cold to the touch, a better bond can be made by pre-warming them before applying adhesive.
- Surplus adhesive can be trimmed using a sharp knife once it has cooled. Should molten adhesive drip onto a smooth or polished surface, allow it to cool completely before removal.
- Spots or blobs of adhesive are recommended for workpieces having a large surface area, or which are particularly long.
- Applying the adhesive in wavy lines is recommended for gluing textiles or similar materials.
- Foam materials, like polystyrene, can be easily bonded to other surfaces. However the adhesive must be applied to the other surfaces, not to the foam.
- Use only genuine *TEC-BOND*<sup>®</sup> adhesive sticks to ensure reliable performance. *TEC-BOND*<sup>®</sup> adhesive sticks are non-toxic and non-flammable.

### GUARANTEE AND REPAIRS

**There are no user serviceable parts within this tool. If you experience any problems with the tool please return it to your Distributor for inspection and / or repair.**

This GAS-TEC 500 is guaranteed against faulty workmanship and materials for a period of **12 months** from the date of purchase. Within this warranty period the manufacturers undertake, at their discretion, to either repair or replace any tool proved to be defective (proof of purchase will be required for verification). This guarantee is invalidated if the tool is opened, or modified in any way, or if adhesive formulations other than those supplied by the tool's manufacturer are used. Warranty claims attributable to improper, or careless, use or handling, and to normal wear, are excluded from this guarantee.

The supplier's and manufacturer's only obligation shall be to replace such tools that are proved to be defective. Neither supplier nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use, or the inability to use, this tool. The user shall determine the suitability of this product for its intended use, and the user assumes all risks and liability whatsoever in connection therewith.

**The manufacturer reserves the right to improve or modify this product without prior notice.**

Made in EU.



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