

# The Heated Gilding Roller

## READ FIRST: Important Safety Information

Thank you for purchasing the Heated Gilding Roller. The roller consists of a silicone covered brass roll which is heated by an earthed 75 watt heating element, and whose temperature can be controlled by the Eagle Plug Power Controller supplied. The plug power controller regulates the temperature of the brass roll. The ideal operating temperature that you need will depend on the material used, but will typically be between 120-160°C. The plug is fitted with a 3 Amp fuse.

We also supply a Silicone mat on which to rest the Heated Gilding Roller whilst it is hot. Whilst the mat can tolerate temperatures up to 500°C, it will still get hot underneath. As a rough guide you can expect the temperature below the silicone mat, to be ~100°C when the roller is heated to 160°C, so place the silicone mat on a piece or preferably two pieces of gray board to protect your work surface.

**Safety notice: ALWAYS PLUG THE HEATED GILDING ROLLER INTO THE EAGLE PLUG Power Controller AND NEVER DIRECTLY INTO THE MAINS.** If you plug the Heated Gilding Roller directly into the mains there is a risk that the roll overheats and the silicone covering may separate from the brass roll.

**Always rest the Heated Gilding Roller on the heat resistant silicone mat provided** to avoid burning or overheating the surface below.

**To Use:** Place the Heated Gilding Roller onto the support silicone mat/grey board, and **plug directly into the dimmer plug which is plugged into the mains (240V ac).**

**Allow 60 minutes** for the Heated Gilding Roller to reach full temperature.

***The temperature can be measured using a dual laser infrared thermometer.*** The ideal operating temperature will depend on the material used and will be ~120-180°C

There are sixteen marks on the Controller plug. **Do not take above mark 16** on the power controller. At the top position the temperature of the roll increases to ~185°C, and on CE testing the temperature reached 240°C. The table overleaf gives you an indication of the temperature achieved at each dial mark (table to be supplied)

*Prepare the surface for gilding.* For a book edge prepare as normal, and make the edge smooth with 500 carbide paper or by using a metal scraper. Some bookbinders dust each page of the end of the book with talcum powder or French chalk before the final preparation using fine grade paper or a scraper.

Size the surface with 10-20% PVA in water or Gum Ammoniac and allow to dry. This enhances the adhesion. For gold leaf you can use BS Glaire. We have not tried egg albumin, but there is no reason why it would not work.

Apply Real Gold Foil or any other foil, or gold or metal leaf. Simply lay on top. You may wish to secure the edges with some tape as needed. Ensure the surface is fully covered. Apply the Heated Gilding Roller to the edge of the area to be gilded, and apply gentle but firm pressure, and slowly move forwards until the entire surface to be gilded is covered. You can roll back and forth as needed, but ideally do in one take. The plastic backing of the foil can then be removed gently to leave a beautiful fully gilded edge.

For coloured rough mosaic effects on surfaces, you can use crumpled foil that generates breaks and a random pattern in the coloured foils.

***Apply the roller at a constant but slow speed as if one were applying a gold line using gold leaf.***

#### **Temperature Table:**

**In general the controller switch should be set at between 11pm and 4pm**

It is **important that you do NOT set above the maximum temperature (mark 16)** as above this can take the temperature up to ~200°C, which is too hot, and the silicone will degrade quicker at such high temperatures. We recommend that you operate the roller between ~125°C to 175°C (marks 9 to 14). For figures of the Eagle Controller, see next page.

*The below temperature guides are approximate only, and each heated gilder will vary.*

Mark 9 is at just before midday position, and indicated by the arrow on the dial and black mark power settings. ***We do NOT guarantee these temperature settings.***

<b>Mark</b>	<b>Temperature</b>
7	100°C
8	115°C
9	125°C
10	140°C
11	155°C
12	163°C
13	168°C
14	175°C
15	180°C
16	185°C

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15	180°C
16	185°C

Spares and Repairs can be arranged through Edgegilding Ltd.

*Silicone covering*

*75 watt heating element (see spec, technologic UK)*

*Eagle 300 watt Plug Power Controller (available through Amazon)*

*Heat resistant cable (electrical suppliers)*

