

GRASS FLOCK APPLICATOR BOX



Operating instructions

» TECHNICAL SPECIFICATION

High Voltage DC Output 12-15KV Max
Power Supply: 9V PP3 Rectangular Battery
Overall Length: 180mm. Width: 123mm. Height: 58mm

PLEASE NOTE: IT IS VERY IMPORTANT TO READ THESE OPERATING INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO USE THE GSW GRASS BOX. THIS DEVICE SHOULD NEVER BE USED BY A PERSON WITH A HEART CONDITION OR FITTED WITH A PACEMAKER!

- **Improper use can cause an electric shock.**
- **Keep Away** from Water or any liquids (Water and Electricity do not mix).
- **Keep other electrical devices more than one metre away** from the Grass Flock Applicator Box when it is in operation (phones/smart-phones, smart-watches, even people with implanted pacemakers).
- Always wear suitable Respiratory and Eye protection at all times while the machine is in operation and whilst using any Flocking materials.
- **Never** Look directly into the end of the applicator whilst in use.
- **Never** use the Applicator to ZAP (Electrocute) any person or being. Never use as a Stun Gun! High Voltages are hazardous to health.
- **Never touch** the end of the applicators wire mesh or the charging plate and spike inside whilst the machine is in operation, nor touch the plate directly after use. The Applicator will hold charge for up to 2 minutes after the applicator is switched off.
- **Ensure the applicator is kept clean to ensure correct operation of the equipment.**
- **Never** use the applicator near Flammable products.
- **Do Not** wear rubber gloves or rubber soled shoes while the applicator is in operation unless you wear a suitable earth strap.
- **It is recommended to wear an earth strap to limit the chance of electric shock from charge build up.**
- **Never Drop** the Applicator, as this may compromise the safe operation of the Device.
- **Avoid** arcing the applicator probe and plate to earth after use because this may damage the internal High Voltage generator.

» WHAT IS FLOCK

Flock is precision cut lengths of fibres cut from different kinds of plastics with different electrostatic properties, therefore not all flock fibres are the same. We therefore recommend the use of **GSW high electrostatic grass flock** available in a big range of colours and 3 ranges of lengths for best performance. Using second grade quality fibres could give unsatisfactory and inaccurate results.

When applied by electrostatic energy, Flock creates an attractive seamless coating with a velvet like feel to the touch. Flock can cover almost any surface.

We recommend using **Tuft Glue** together with the **GSW** high electrostatic flock which is a high-tack adhesive specifically designed to create auto-adhesive and repositionable model Static Grass or Field Grass. Helps the flock maintain its shape and vertical position. This glue is transparent when dry.

» HOW ELECTROSTATIC FLOCKING WORKS

The base or surface of the model to be coated is arranged in what is called an electrostatic circuit, whereby the positive charge of the flocking applicator electrode is pointed towards the surface which is grounded to earth, therefore the line of circuit between the applicator and the substrate causes the Fibres to be attracted towards the earthed surface which is coated with the **Tuft Glue**. Due to the Electrostatic force the Fibres are pulled toward the Adhesive which penetrate, and set end on into the adhesive layer. This gives a high-Density Pile of Flock giving approx. 150,000 fibres per square inch depending on the type of flock used.

The surfaces can retain traces of static electricity after each use, so you must discharge the machine to avoid small discharges of the remaining electricity.

» HOW TO BUILD THE FLOCK CHAMBER (SEE BACK)

The flocking box will protect you while using the applicator. **We recommend the use of white glue to reinforce the joints of the MDF box.**

» BATTERY AND START UP PROCEDURE

To start the unit for the first time or to change the Single 9V battery, remove the Battery Access panel. Inside the applicator contains a 9V Battery holder which you need to pull out gently. Do not tug heavily on the Battery holder.

» To change the Battery, remove and replace the Battery the correct way round indicated by the polarity markers on the Battery compartment. Correct and secure fitting is essential. Once fitted, replace the lid back on the Battery compartment and make sure it is pushed in all the way to ensure correct contact is made.

» HOW TO USE: IMPORTANT

- Take extreme care not to accidentally Flick the Power on/off switch whilst filling the flock. This will activate the Generator, thus creating a severe risk of electric shock.
- **Safety Glasses** should be worn to eliminate possible eye hazards due to flock fibres leaving from the applicator head.
- **Suitable Respiratory masks** should be worn whenever handling Flock materials, especially those with a length less than 4mm.
- Ensure that work area is clean and clear of any and all flammable substances.
- Make provisions to contain any excess flock.
- Ensure that the surface to be flocked is clean and well prepared.
- **IMPORTANT: When the GSW Grass Box is in use, it should not be held by the base of the unit.**

» METHOD OF APPLICATION:

1. Place the **Grass Flock Applicator Box** inside the flock chamber.
2. Place Flock on top of the charging silver plate.
3. Attach the model to the metallic black part at the flock chamber cover. **We recommend the use of magnets.**
4. Add **Tuft Glue** to the surface to be flocked.
5. Connect the crocodile clip to the black metal sheet through the open side of the flock chamber above the Box. In case of not using the flock chamber, connect the crocodile clip to the adhesive coated part of the model.
6. Press the on/off button to switch the unit on. This will allow the flock to be charged.
7. Flock fibres should now jump from the applicator plate and cover the Adhesive coated object. The distance between the applicator and the object to be flocked should be approximately 3 - 4 inches maximum to achieve the best finish.
8. Once flock has been applied to the desired level, switch off the applicator and set the item down to dry.
9. Discharge the excess charge by placing the tip of the earth lead onto the charging plate. Do not touch the Plate or end of the earth lead with your hand during this process.
10. Gently shake the excess flock from the flocked area, but do NOT touch the "flocked" area until the adhesive is dried.
11. Once the adhesive has set, excess flock may be removed and the "flocked" area may be touched, and brushed off.

» **PLEASE NOTE:** The charging silver plate retains Electrostatic charges, even after use, so before refilling the applicator with flock, it is always advised to dissipate these charges. To do this, turn off the device, hold the crocodile clip to the charging plate. A small 'arc' may occur. This arc is not harmful to the device if all safety advice has been followed.

The crocodile clip is covered with an insulating material to protect the user at all times. If you are in doubt whether any part of the machine or yourself is charged with static electricity, simply discharge it using this cable.

» DISPOSAL INSTRUCTIONS

DO NOT dispose of this equipment with normal waste. Under the WEEE directive (Waste Electrical and Electronic Equipment Directive - Directive 2002/96/EC), electrical equipment should be returned to the manufacturer for possible recycling. Please return equipment to Green Stuff World for recycling or disposal.

» DECLARATION OF CONFORMITY

Statement of Conformity Based on test results using appropriate standards, the product is in conformity with Electromagnetic Compatibility Directive 89/336/EEC and Low Voltage Directive 73/23/EEC.

ROHS Compliant

Complies with Directive 2005/95/EC

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