

GRASS FLOCK APPLICATOR TOOL



Operating instructions

» TECHNICAL SPECIFICATION

High Voltage DC Output 15 - 20KV Max.

Power Supply: 9V PP3 Rectangular Battery.

Overall Length: 340mm.

Weight with battery: 528 grams / Without battery: 482 grams.

PLEASE NOTE: IT IS VERY IMPORTANT TO READ THESE OPERATING INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO USE THE GSW FLOCK APPLICATOR. 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 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 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 **Flock 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 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.

» BATTERY AND START UP PROCEDURE

To start the unit for the first time or to change the Single 9V battery, remove the Battery Access tray at the bottom of the applicator by pressing down and sliding it out.

» To change the Battery, replace the Battery the correct way around indicated by the polarity markers on the Battery Tray. Correct and secure fitting is essential. Once fitted, Slot the Battery holder back into the compartment on the applicator.

» 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 Flock Applicator is in use, it should not be held by the base of the unit.**

» METHOD OF APPLICATION:

1. Remove the Mesh Cap carefully to avoid damaging the mesh and the securing tabs.
2. Flock is loaded into the Plastic Flock Hopper and the Sieve head is clipped into place to secure the Flock in the Hopper. We suggest that the applicator only be filled to about 1/2 to 2/3rds of its capacity to allow effective electrostatic charging.
3. Connect the crocodile clip on the earth/ground lead, to the adhesive coated paper.
4. The clip should make contact with the adhesive or, if the item to be flocked is non-conductive, flat and thin a metal plate can be placed below or behind the object and the crocodile clip connected to that.
5. Point the applicator head at the object to be flocked. The applicator head can be pointed in any direction whilst flocking however it is not recommended to point the applicator downwards for prolonged periods because the Flock can lose charge because the flock may lose contact with the charging plate, resulting in the flock not being charged enough to provide a good flocked finish.
6. Press the On/Off Button to switch the unit on. This will allow the flock to be charged. It may be necessary to agitate the flock by gently shaking the unit towards the surface.
7. Flock fibres should now come from the applicator head and cover the object. The distance between the applicator mesh and the object to be flocked should be approximately 125mm/150mm (5-6inches) maximum to achieve the best finish
8. Once flock has been applied to the desired level, switch off the applicator and put the applicator down.
9. Gently shake the excess flock from the flocked area, but do NOT touch the "flocked" area until the **TUFT GLUE** is dried.
10. Once the adhesive has set, excess flock may be removed and the "flocked" area may be touched and brushed off.

» **PLEASE NOTE:** The charging plate in the base of the Hopper may retain Electrostatic charges, even after use, so before refilling the applicator with flock, it is always advised to dissipate these charges. To do this, remove the mesh head and 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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