

# Patented One Step™

## Multi-Bead & Multi-Bead Plus

### Description

The patented One Step™ Multi-Bead (MBA) and Multi-Bead Plus (MBA Plus) are battery powered adhesive applicators designed to be used with Millennium One Step™ adhesives. The One Step™ MBA applicator is a four cartridge port adhesive applicator designed for One Step™ Foamable Adhesive cartridges. The One Step™ MBA Plus applicator is a 13 cartridge port adhesive applicator designed for One Step™ Insulation and Hurricane Force® Membrane Adhesive cartridges.

### Start Up

1. Make sure batteries are fully charged. If battery is not fully charged, charge until display confirms that it is fully charged. Plug charger into electrical outlet. Connect the battery to the charger (for MBA: black connector to black connector, red connector to red connector; for MBA Plus: gray connecting terminal from charger to gray terminal on battery). Make sure 2/6/10 button is depressed to activate the charging process. The indicator lights on the charger will display the status of the battery.
2. Install fully charged battery into battery compartment and connect the terminals.
3. Test the MBA by depressing the trigger switch. Make sure all plungers are functional. To activate the return, pull firmly on the return handle. To test the MBA Plus turn the "Dispense/Retract" dial to the "dispense" position and depress the trigger switch. Make sure all plungers are functional. To activate the return, turn "Dispense/Retract" dial to "Retract" position; the plungers will retract automatically.
4. Prepare Millennium One Step™ adhesive cartridges by removing the molded tips from the threaded mixing head, and attach the provided One Step™ mixing nozzle.
5. Load cartridges, and ensure that each cartridge is firmly in place.
6. Position applicator where adhesive is to be dispensed and the insulation or membrane is to be installed.
7. Begin dispensing adhesive by depressing trigger switch, and pull applicator at a rate which will put down adhesive beads 1/4" to 1/2" (0.6cm to 1.3cm) wide.
8. When finished dispensing cartridges in their entirety, pull return handle until plungers have completely retracted. On the MBA Plus set the "Dispense/ Retract" dial to "retract" position. Remove empty cartridges.



### Features

MBA applies 4 beads of adhesive simultaneously

MBA Plus has 13 cartridge capacity

Battery powered

Low maintenance

Fastest method of installing rigid insulation

### Benefits

Install up to 6 squares in less than 2 minutes

Install adhesive from 12" o.c. up to full coverage

No cords or generators required

No work delays due to equipment failure

Lower installed cost

### Safety

Protective equipment such as safety glasses and protective gloves must be worn when operating or servicing the MBA and MBA Plus applicators.

Under no circumstances should any acid or corrosive chemicals be used in the machines. The electrical circuitry is not of explosion proof design and should not be used in any environment requiring such a design.

The MBA and MBA Plus applicator should never be actuated when the outlet tip of the adhesive cartridge(s) is blocked or restricted by cured adhesive, any object or some part of the body.

Prior to working with this or any product consult product label and Material Safety Data Sheet (MSDS) for necessary health and safety precautions.

**\*U.S. Patent Nos. 7,056,556; D501,855**

CAUTION: All statements and technical information in this document are based on tests or data that Royal believes is reliable. However, Royal does not warrant or guarantee the accuracy or completeness of this information. The user has sole knowledge and control of factors that can affect the performance of Royal's products in the user's intended application. It is the user's responsibility to conduct tests to determine the compatibility of Royal's product with the design, structure, and materials of the user's end product and the suitability of Royal's product for the user's method of application and intended use. The user assumes all risk and liability arising out of such use.

## Shut Down and Extended Breaks

1. If dispensing needs to be interrupted, release the trigger switch and briefly pull back the return mechanism on the MBA, or turn the "Dispense/ Retract" dial on the MBA Plus to relieve pressure from the cartridges.
2. If dispensing is interrupted for more than a few minutes, the static mixing nozzles will need to be replaced with new nozzles.
3. If battery's charge is used up during dispensing, simply replace with alternate battery and begin charging spent battery.
4. At the end of each day, recharge both batteries for use the following day.

## Maintenance Instructions

- Keep all moving parts free of adhesive or debris.
- Do not allow adhesive to build up on the plungers or plunger rods.
- Always maintain a clean surface where the cartridges are placed. Debris can cause the cartridges to tilt and malfunction.
- Wheels should remain free of adhesive to provide smooth travel. Wheels can be covered with a layer of tape to ensure quick removal of adhesive buildup.
- The battery should be completely charged prior to use.
- For faster charge times, do not allow battery to fully discharge. A partially discharged battery will charge more quickly than a fully discharged battery.
- Slow charging at 2 amps overnight will promote longer battery life than rapid charging at 10 amps. Batteries carry a 90-day warranty.
- The electric actuator is not serviceable by the user. Do not attempt to open the actuator case. Opening the actuator case will void all warranties.
- **Always use four cartridges in the MBA applicator. Uneven pressure can damage the applicator. If fewer than four beads of adhesive are required, use the Millennium One Step™ Battery Powered Applicator.**
- **Always use a minimum of four equally filled and spaced cartridges in the One Step™ MBA Plus applicator. Failure to dispense less than four equally spaced cartridges can cause uneven pressure on the push rods and can lead to damage to the machine. If fewer than four beads of adhesive are required, use a single bead applicator.**
- For the MBA Plus applicator place prepared cartridges in proper slots for desired bead spacing. Ensure each cartridge is set firmly in place with dark side (part B) placed in the up position.

Code #0027-0514

**WARRANTY:** Royal Adhesives and Sealants warrants its products to conform to Royal's specifications at the time of sale when tested according to Royal standards. If a product is proven to be defective when tested according to Royal standards, Royal will, at its option, refund the purchase price or replace or repair the defective product. THIS LIMITED WARRANTY IS THE BUYER'S SOLE AND EXCLUSIVE REMEDY AGAINST ROYAL ADHESIVES AND SEALANTS AND IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. In no event shall Royal be liable for any special, incidental, consequential, or punitive damages arising out of any claims whether based on negligence, contract, warranty, strict liability or otherwise.



## Packaging

Patented One Step™ Multi-Bead and Multi-Bead Plus applicators include:

### North America

#### Description

Multi-Bead  
Multi-Bead Plus

#### Part #

EQ-MBA  
EQ-MBAP

### Europe, CIS, and Middle East

#### Description

Multi-Bead  
Multi-Bead Plus

#### Part #

EQ-MBAEU  
EQ-MBAPEU

2 rechargeable batteries

1 battery charger

## Available Accessories/Parts

Patented One Step™ Multi-Bead:

- 7 AH replacement battery
- 12 AH replacement battery
- Replacement battery holder for larger 12 AH battery
- AC to DC power converter
- Front replacement wheels
- Rear replacement wheels
- Replacement trigger switch

Patented One Step™ Multi-Bead Plus:

- 40 AH replacement battery
- Front replacement wheels
- Rear replacement wheels
- Replacement trigger switch

**\*U.S. Patent Nos. 7,056,556; D501,855**