



# CHEMICAL INJECTION EQUIPMENT

## AGAINST WOOD DESTROYING ORGANISMS



[WWW.MABI-USA.COM](http://WWW.MABI-USA.COM)





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- c. WOOD (attic frame, crawl space beams and piers, support column, utility post, barns, log cabins)

**THESE EXTERIOR/INTERIOR METHODS MAY BE DONE ON A FULL PERIMETER OR LOCALIZED ONLY IN COMBINATION WITH OTHER TECHNIQUES.**

The methods are given for information purposes only.  
Always refer to the local legislation and to the chemical manufacturer's label before starting any job.

Always wear the Personal Protective Equipment (PPE) required and officially approved for chemical handling, including gloves, coverall, respirator and protective eyewear.

# 1/ WOOD DESTROYING ORGANISMS IN USA

## > TERMITES

Termites are a group of eusocial insects that live in colonies organized by castes. They eat cellulose and radiate foraging tunnels in the heart of the wood. The main species found in the USA are the Subterranean, Formosan, Asian, Drywood and Dampwood Termites.

EXAMPLE OF THE SUBTERRANEAN TERMITE:



· WORKERS

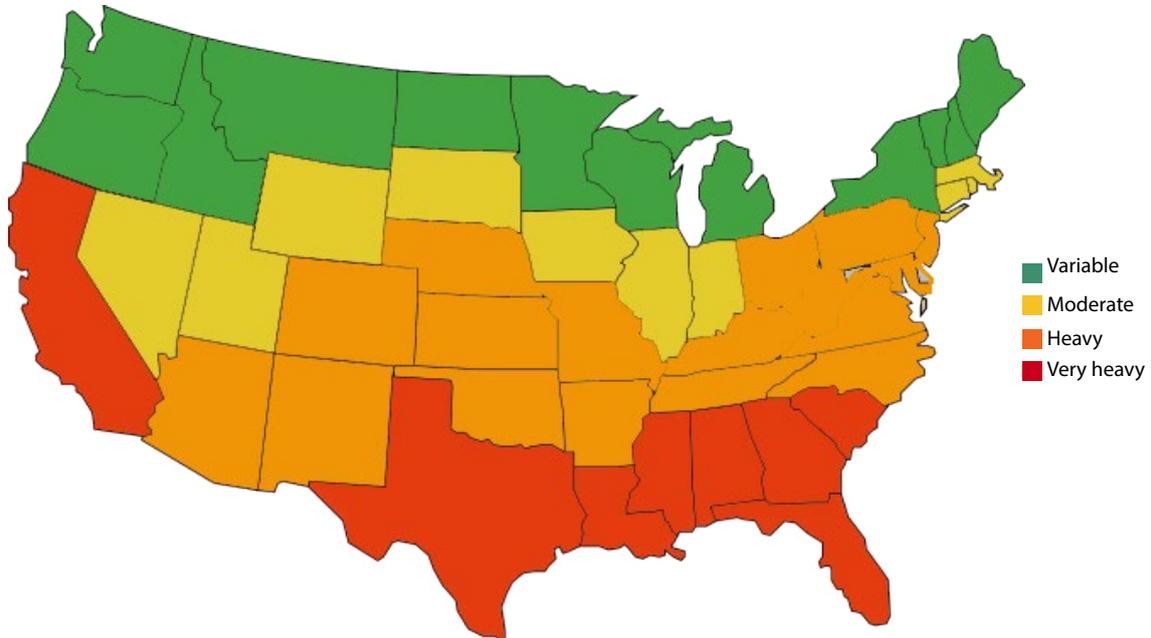


· SOLDIERS



· DAMAGES

CONCENTRATION OF TERMITES IN USA:



## > WOOD-BORING BEETLES

Infestation is caused by insects laying eggs in cracks and crevices of exposed wood. These eggs become larvae that burrow into the wood to feed, which reduces the wood to dust. The main insects found are Old-house Borer, Powderpost Beetle, Deathwatch Beetle and False Powderpost Beetle. Their presence can be detected mainly by the exit holes as soon as they reach adulthood.

EXAMPLE OF THE OLD-HOUSE BORER (*Hylotrupes bajulus*)



· LARVA  
Color: ivory white  
Length: 1-1/4 inch



· ADULT  
Color: black to brown  
Length: 5/8 to 1 inch



· DAMAGE  
Exit hole: oval > 1/4 inch  
Bore dust: colored cylinder  
Timber attacked: sapwood of softwoods

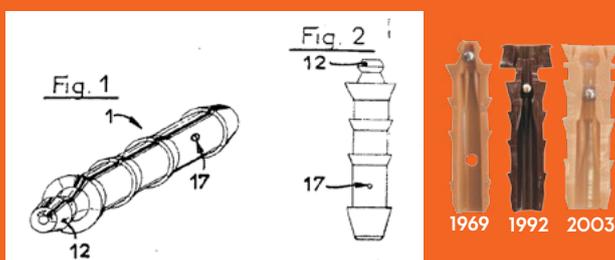
## > CARPENTER ANTS, WOOD DECAY FUNGI (BROWN ROT), ETC.

## 2/ MABI: 50 YEARS OF INNOVATION,

FROM PEST MANAGEMENT PROFESSIONAL TO A GLOBAL MANUFACTURER.



First treatments, 1969



International patents, 1969



French exhibition, 1983



National Innovation Award, 2012



Seattle exhibition Pestworld, 2016

**1967:** Marc BIDAUX set up the **pest control company** PCBE (Wood Chemical Protection of the East) in Belfort, France.

**1969:** To significantly improve the effectiveness of his treatments, Marc BIDAUX invented the first plastic injector with a non-return valve to treat wood in-depth. Soon, his main competitors asked him to supply them with this revolutionary system. The MABI injector was **internationally patented** and launched on the French market.

**1970:** The new injection system received professional accreditation by the CTBA (Technical Center for Wood and Furniture), a French organization which validates and recommends it for its high efficiency. Since then, the major European organizations have adopted the MABI system as **the most effective curative method against wood-destroying organisms**.

As the sales soared, the company set aside the application to focus exclusively on the design, manufacture and marketing of a range of specialized equipment for protecting all types of construction. Thus were designed other kind of injectors, in particular for treating masonries and soils.

**80s:** The company was now called MABI, after the name of its creator, Marc Bidaux.

To increase the export sales, a German company was set up, MABI Baustoffschutz GmbH. Not to mention the growing **participations in exhibitions** everywhere in Europe.

**90s:** Over the years, the company has increased its research on injection efficiency and the convenience for the user. A MABI injector with a setter head was created which allowed insertion with a single hammer blow.

**2000s:** The company was taken over by Olivier BIDAUX who brought a fresh new approach. A new generation of MABI injectors was launched, more technical and aesthetic. It was further evidence of the technological leadership of MABI within the industry

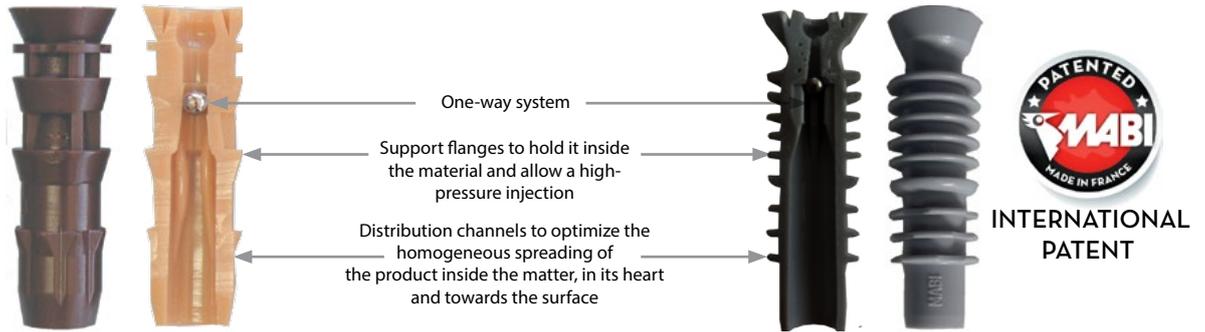
Since then, thanks to its R&D department and a thorough knowledge of the field, the company is continuing to innovate and improve on the products it distributes worldwide.

MABI has won **numerous awards** for its innovation policy.

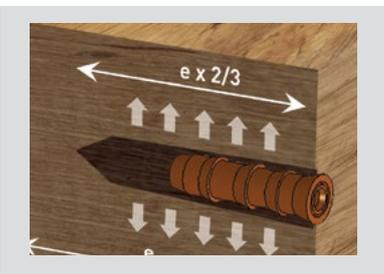
**2016:** Now present in more than **30 countries** to meet the needs of thousands of PMP's worldwide, MABI continues its development with the launch of its products in the USA.

# 3/ MABI INJECTORS

A BREAKTHROUGH SYSTEM, EASY TO USE, RELIABLE AND COST EFFECTIVE FOR YOUR POST-CONSTRUCTION TREATMENTS.

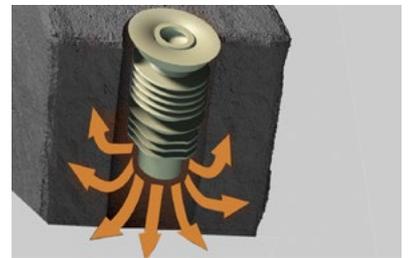


## SAVE TIME, MONEY AND KEEP A COMPETITIVE EDGE



### EFFICIENCY:

increases the effectiveness of chemicals with an optimal distribution in the material under pressure. Allow treatment of an area that usually can not be treated.



### SPEED:

takes only a few seconds to spread the product.  
Reinjection possible without re-drilling.



### SAFETY:

avoids spilling, splashing or back flow of chemical. Limits regulatory exposure and environmental contamination.



### PROFESSIONALISM:

strengthen your image and reassure the final customer: with a visible system and a cleaner jobsite.

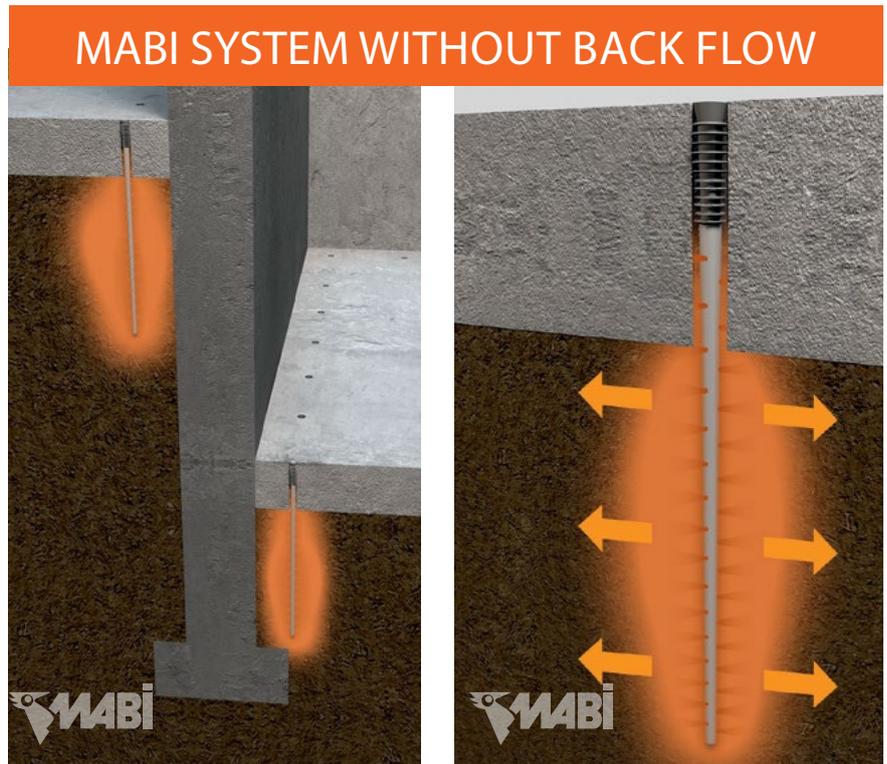


## MAKE MONEY:

Speed and efficiency will reduce labor cost. Anti-return valve eliminates chemical waste. Easier to promote your regular maintenance visits, faster to handle them. Higher rate of customer retention thanks to this reusable system.

# > CONCRETE SLAB TREATMENT

(SUBTERRANEAN, FORMOSAN AND ASIAN TERMITES)



## 1. DRILL

Drill holes of 1/2" vertically through the slab along the exterior or the interior of the foundation spaced every 12 or 18 inches maximum as per label direction. Drill holes around pillars, along all cracks, expansion joints, plumbing, utility services penetrating the slab. Always refer to the manufacturer's termiticide label for proper placement of drill down holes and locations.



## 2. MABI INJECTORS INSERTION

MABI injectors are inserted into each drilled hole, using a hammer. They have been developed to keep enough pressure during and after the injection. You can adapt at the bottom of the MABI injector a diffusing tube that helps direct the termiticide laterally to get better dispersement.



## 3. INJECT

The chemical is injected with low pressure with a gun and a pump. For each injection, the injected product quantity should be controlled in order to respect the manufacturer's chemical product instructions. After the injection, MABI injectors are left inside the holes and serve as plugs. You can hide them with a suitable sealant and don't use them again. But more likely, you can decide to add a cap for aesthetic reason and to protect the connection head of the MABI injector. In case of clear evidence of reinfestation or breakdown of the termiticide treated area, you will be able to use the same injectors with no need for new drilling.

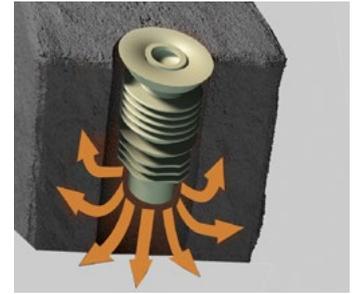
## > PRODUCTS RECOMMENDED FOR CONCRETE SLAB TREATMENT

### MABI INJECTORS



To spread your chemical below the concrete slab and keep it there.

SIZE	COLOR	REF
1/2" x 1 7/8"	gray	01080016
1/2" x 1 7/8"	white	01080014



### CAPS FOR MABI INJECTORS 1/2"

To hide and protect MABI injectors. Remove them and inject again with no need for new drilling.



COLOR	REF
white	01060008
gray	01060010

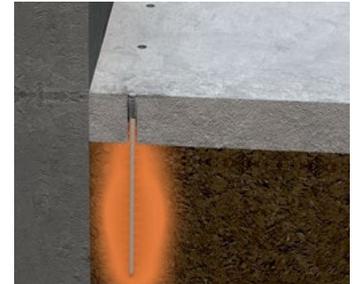


### KIT MABI INJECTOR FOR CONCRETE SLAB

Save time with this ready-to-use kit. Includes 100 Mabi injectors already connected to a 10" diffusing tube and its end cap + protective caps for Mabi injectors.



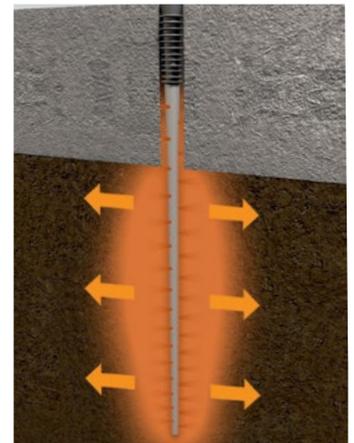
COLOR	REF
GRAY	01080105
WHITE	01080104



### DIFFUSING TUBES AND CAPS

To be connected at the bottom of the MABI injector to get a better dispersement laterally and in depth due to the 360° micro-holes. Cut it to the length of you choice to adapt it to you needs.

Tube L=10" + end cap (100 units)	01080022
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### INJECTION TIP

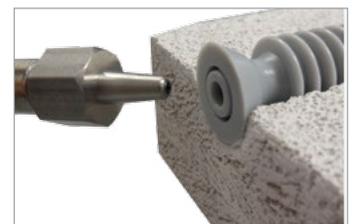
(1) To be connected to a spray gun or to a valve.



(2) (1) For B&G slab injector with a 7/16" pipe  
(2) For JD-9 gun



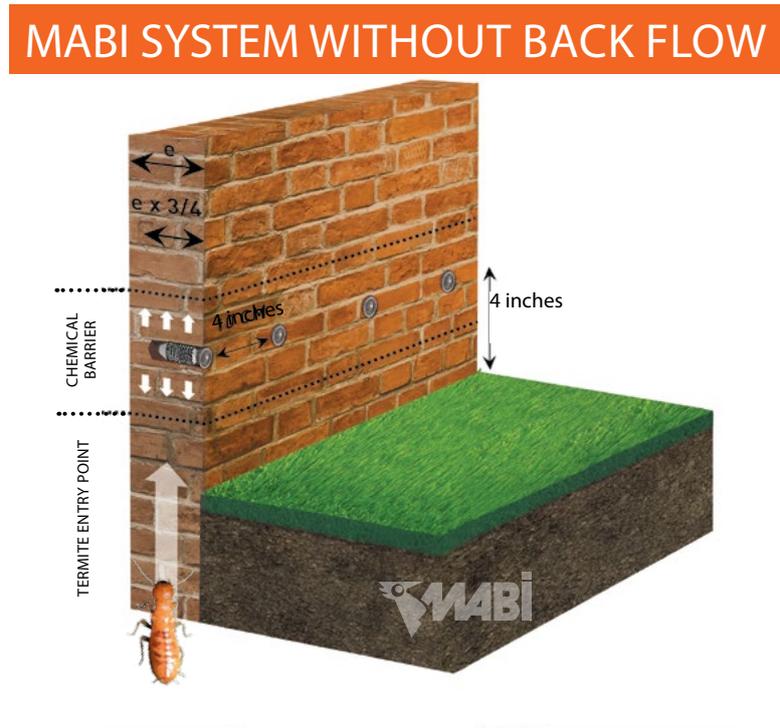
(3) For 11/16" spray guns and B&G foamer



# > FOUNDATION WALLS TREATMENT

SOLID BRICK, WALL VOID, RUBBLE WALL, BRICK PIER, BRICK VENEER.

(SUBTERRANEAN, FORMOSAN, ASIAN TERMITES; GENERAL PESTS)



## 1. DRILL

Drill 1/2" holes, preferably on the outside of the building, following a horizontal line closest to the ground. Drill the 3/4 of the total thickness if you plan to treat the wall or the total thickness if you want to reach the void space.



## 2. MABI INJECTORS INSERTION

MABI injectors are inserted into each drilled hole, using a hammer. They have been developed to keep enough pressure during and after the injection.

You can adapt at the bottom of the MABI injector a diffusing tube that helps direct the termiticide laterally to get better dispersement or an extension rod to reach further.



## 3. INJECT

The chemical is injected with low pressure with a gun and a pump.

For each injection, the injected product quantity should be controlled in order to respect the manufacturer's chemical product instructions.

After the injection, MABI injectors are left inside the holes and serve as plugs.

You can hide them with a suitable sealant and don't use them again.

But more likely, you can decide to add a cap for aesthetic reason and to protect the connection head of the MABI injector. In case of clear evidence of reinfestation or breakdown of the termiticide treated area, you will be able to use the same injectors with no need for new drilling.

## > PRODUCTS RECOMMENDED FOR FOUNDATION WALLS TREATMENT

### MABI INJECTORS

To spread your chemical inside the wall and keep it there.



SIZE	COLOR	REF
1/2" x 1 7/8"	gray	01080016
1/2" x 1 7/8"	white	01080014



### CAPS FOR MABI INJECTORS 1/2"

To hide and protect MABI injectors. Remove them and inject again with no need for new drilling.



COLOR	REF
white	01060008
gray	01060010

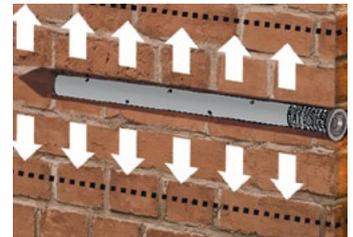


### DIFFUSING TUBES AND CAPS

To be connected at the bottom of the MABI injector to get a better dispersement laterally and in depth due to the 360° micro-holes. Cut it to the length of you choice to adapt it to you needs.



Tube L=10" + end cap (100 units)	01080022
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### INJECTION TIP

- (1) To be connected to a spray gun or to a valve



(1) For JD-9 gun Combo04040235

- (2) For 11/16" spray guns and B&G foamer



04040221



# > WOOD TREATMENT

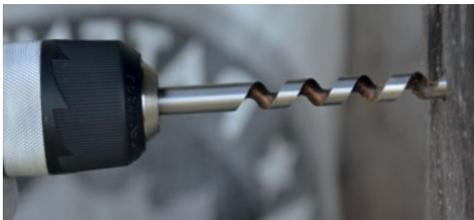
ATTIC FRAME , CRAWL SPACE BEAMS AND PIERS, SUPPORT COLUMN , UTILITY POST, BARNs, LOG CABINS.

(TERMITES, WOOD-BORING INSECTS, CARPENTER ANTS, WOOD-DECAY FUNGUS.)

BEFORE	MABI SYSTEM WITHOUT BACK FLOW
 <p data-bbox="204 421 300 450">Spraying</p> <p data-bbox="161 752 488 801">Spraying chemicals on wood can only treat the surface.</p>	 <p data-bbox="592 405 687 434">injection</p> <p data-bbox="1406 472 1485 501">12 inches</p> <p data-bbox="528 752 1214 801">A combination of injection and spraying is the most efficient way to treat wood, in-depth to kill the insects inside and on the surface to prevent new attacks*.</p>

## DIAGNOSIS

During the survey of each wood part to determine the extent of damage and the responsible insect, the applicator must evaluate the strength and judge the eventual replacement of certain parts.



### 1. DRILL

Drill 1 hole per foot with a Wood Auger bit, in a diamond pattern.  
2/3 of the beam thickness is the depth to consider.  
For very large sections of wood (> 8/8 in), the holes are made on two opposite sides of the wood pieces.



### 2. INJECT

The aim is to create, inside the wood section, insecticide active zones to eliminate larvae and insects which cannot be reached by a surface treatment.

- Drive in the MABI injectors with a hammer.
- Inject the treatment product between 30 and 220 PSI until runoff is observed; by using a gun and an injection tip combined with a pump.



### 3. SPRAY

Finally, spray the product over all wooden surfaces according to product's label. You will destroy all larvae and insects present and get lasting protection against future attacks.

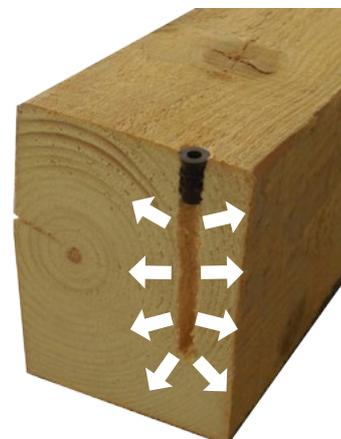
\*Results may vary according to the chemical used, the wood specie, the wood thickness and the pressure used.

## > PRODUCT RECOMMENDED FOR WOOD TREATMENT

### MABI INJECTORS

To spread your chemical inside the wood and keep it there.

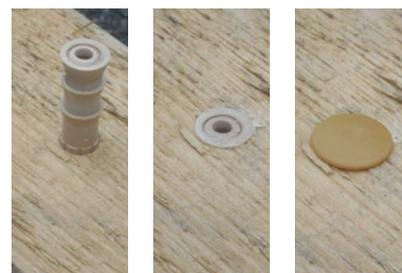
SIZE	COLOR	REF
1/4" x 19/32"	brown	01010015
1/4" x 19/32"	beige	01010013
1/4" x 19/32"	white	01010014
3/8" x 1 15/32"	brown	01030012
3/8" x 1 15/32"	beige	01030013
3/8" x 1 15/32"	white	01030014



### CAPS FOR INJECTORS 1/4" AND 3/8"

To hide and protect injectors. Remove them and inject again with no need for new drilling.

COLOR	REF
brown	01060007
beige	01060009
white	01060008



### GROOVED WOOD-DOWELS

To hide permanently injectors with a wood appearance.

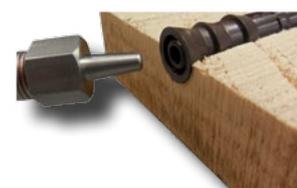
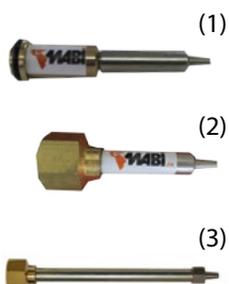
Grooved wood-dowels 1/4"	02040000
Grooved wood-dowels 3/8"	02040001



### INJECTION TIP

To be connected to a spray gun or to a valve.

(1) For JD-9 gun	Combo04040235
(2) For 11/16" spray guns and B&G foamer	04040221
(3) For TrueTech & 3/8" metric equipment	04040270





**FOR 50 YEARS, MABI HAS MET THE NEEDS OF PMP'S  
IN MORE THAN 30 COUNTRIES WORLDWIDE.**

**IT'S BREAKTHROUGH SYSTEM KEEPS THE PEST CONTROL INDUSTRY MOVING FORWARD.**



100% OF OUR OWN  
PRODUCTS ARE  
MANUFACTURED  
IN FRANCE



TO DATE, WE HAVE FILED  
12 INTERNATIONAL PATENTS,  
2 TRADEMARKS AND 1 MODEL



WE ARE COMMITTED  
TO PROTECT THE ENVIRONMENT  
INCLUDING  
RECYCLING OF MATERIALS  
AND ENERGY SAVING

**INFO@MABI-USA.COM**

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