



# MINI PUMP

## PICOTE BRUSH COATING™ SYSTEM

# OPERATION & SAFETY MANUAL

**⚠ WARNING**

These instructions are for your personal safety. Always ensure that you have read and understood these instructions before using any of the Picote Brush Coating™ System Range.

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To watch practical demonstration videos, or to download an electronic copy of these Instructions, please visit [www.picotesolutions.com](http://www.picotesolutions.com). Please note that videos are not intended as a replacement or alternative to this operating and safety manual, but only as an additional learning tool.

# Safety Information & Symbols



**WARNING**

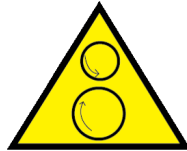
*This section contains important safety information. Failure to comply could result in serious injury or death.*

## Safety Symbols



**DANGER**

Risk of serious injury, follow instructions



**DANGER**

Risk of serious injury from rotating parts



**DANGER**

Risk of serious injury from electric shock

## Personal Protective Equipment **PPE**

*Always use Personal Protective Equipment when using the Picote Coating System, including suitable overalls / protective clothing & footwear and the following:*



Always wear suitable eye protection when using the Coating System to prevent coating resin or other dust from irritating your eyes.



Always wear a suitable ventilation mask when using the Coating System to prevent any resin dust or vapors being inhaled or consumed, which can cause occupational asthma or epoxy dermatitis as well as eye irritation.



Always wear suitable ear protection when using the Coating System to prevent any hearing loss.



Always wear suitable resin-resistant gloves when using the Coating System to prevent any skin irritations. Any open injuries or skin irritations should be covered at all times to avoid contact with resin or dust.

## Always Remember



Always ensure that the machine is fully turned off and unplugged before inspection, maintenance, or installing any accessories to the machine. Failure to comply may lead to serious injury including electric shock.

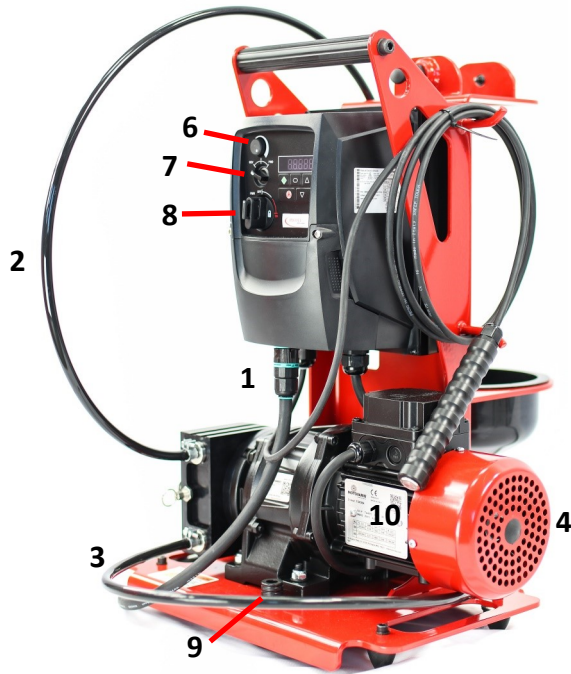


Dust produced when working can be dangerous to your health, inflammable or explosive. Make sure the drain pipe has been opened and ventilated to stop any gases forming in the lateral drain where the work takes place.



Before assembly, use, replacement of parts or maintenance, unplug the Picote milling machine from its power socket. Failure to comply may lead to serious injury including injury from rotating parts.

# Picote Mini Miller Coating Pump



## General Description

1. Power Cord
2. Resin Supply Hose
3. Delivery Hose
4. Motor
5. Resin Cup Location
6. Speed Control
7. Reverse/Forward
8. On/Off Button
9. Release, locks pump to Miller
10. Resin Release Button
11. Smart Mixer Platform

## Intended Use

This machine is intended for the following uses:

1. Coating pipes from DN32-200 / 1.25'' - 8''
2. Cleaning sewers and drains with degreaser.

Always follow the manufacture's instructions when installing and using the machine with accessories.

SIZE	HOSE	RANGE	ROTATING SPEED	OUTPUT (kw)	POWER SOURCE	WEIGHT
26x42x54.4 cm	8/10mm	Max 22m	Depends on pipe diameter	5	110v or 230v	15kg
10.2x16.5x21.5''		Max 75ft				33.1 lb

## Voltage

**Ensure that the supply voltage is correct.** The voltage of the power source must match the value given on the nameplate of the machine. Available in 230v and 110v.

## Power Supply

The machine should be connected only to a power supply of the same voltage as indicated on the nameplate, and can only be operated on single-phase AC supply.

This machine has a hand-held locking operator control bottom or "LOC". When the control button is pushed the pump is engaged and will operate until depressed.

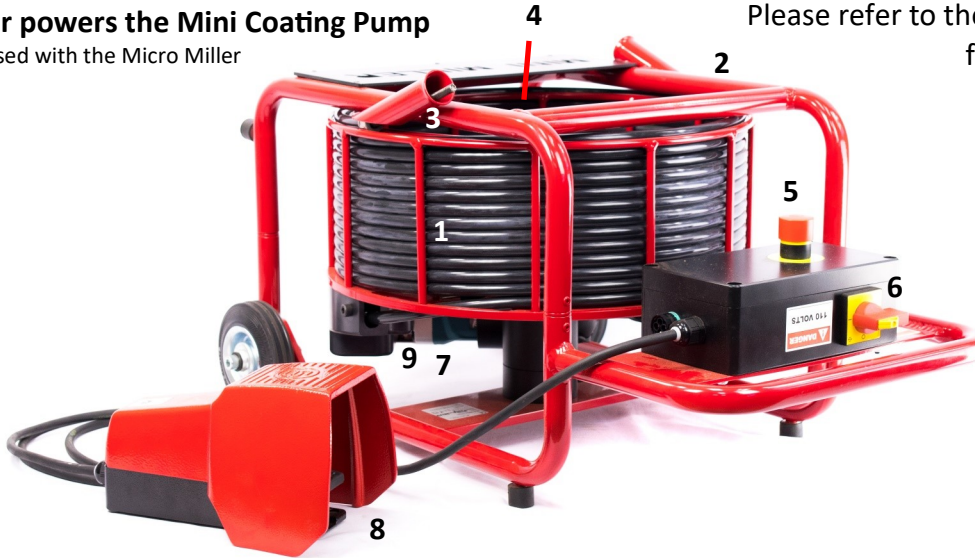
# Mini Miller 8/17

The Mini Miller powers the Mini Coating Pump

Note: can also be used with the Micro Miller

**! WARNING**

Please refer to the Mini Miller manual for more information



## General Description

1. Cable Rack
2. Frame
3. Flexible Shaft
4. Motor & Bevel Gear (not shown)
5. Emergency Stop Button (red)
6. Power Switch
7. Speed Control
8. Foot Pedal—Operator Presence Control
9. Hand Guard & Strain Relief/inside Hand Guard (not seen in photo)

## Intended Use

This machine is intended for the following uses:

1. Coating pipes from DN32-200 / 1.25'' - 8''
2. Cleaning sewers and drains by grinding. (Picote Grinding Chains)
3. Reinstating branches in sewers and drains by drilling and grinding. (Picote Lateral Cutter)

Always follow the manufacturer's instructions when installing and using the machine with accessories.

SIZE	SHAFT	RANGE	ROTATING SPEED	OUTPUT (kw)	POWER SOURCE	WEIGHT
750x640x300	8mm	17m	500-2900rpm	1200	110v or 230v	32kg
29x20x16''	1/3''	55ft				72lb

**When in use, always lay the machine down horizontally on the floor as shown above. When not in use, some non-hazardous paraffin oil might leak from the hand guard.**

## Voltage

**Ensure that the supply voltage is correct.** The voltage of the power source must match the value given on the nameplate of the machine. Available in 230v and 110v.

## Power Supply

The machine should be connected only to a power supply of the same voltage as indicated on the nameplate, and can only be operated on single-phase AC supply.

## Emergency Stop









There is an Emergency Stop Button on the machine. The power supply to the motor is cut off when the Emergency Stop Button is pushed. Always make sure the Emergency stop Button is pressed or completely unplug the machine when the machine accessories (e.g. Cutter or Grinding Chains) are not inside the drain.

## Foot Pedal

The machine has an operator presence control or 'OPC'. When the control is not held down, the machine stops.




# Required Parts

First make sure you have all the required parts.

PRODUCT NAME	PRODUCT NUMBER	DESCRIPTION	INFORMATION
<b>1. MINI MILLER COATING PUMP</b>			
	2220100001	Mini Miller Coating Pump EU 230v	Hoses, brushes & other parts sold separately
	2220100002	Mini Miller Coating Pump UK, US 110v	
<b>2. MINI MILLER</b>			
	3540000817	Mini Miller 230v, 17m range	8mm / 1/8" Shaft
	3540000817UK	Mini Miller 110v, 17m range	
	3540000817US	Mini Miller 110v, 55ft range	
<b>3. HOSES &amp; SHAFT</b>			
	2220100004	Resin Supply Hose	Supplied in 25m/82ft lengths. Color-Red
	2220100003	Resin Delivery Hose	Supplied in 25m/82ft lengths. Color-Black
	1312030085017	Mni Miller spare shaft, 8mm with thick outer casing	17.5 meters/57.4ft
	9123050001	Shaft connector	Necessary if attaching a shaft extension
	2220100007	Hose Connector with two hose clamps (11 & 13mm)	
	9321231985BS	8mm / 1/8" sleeve (spare part)	Package of 10 bearings. To be used inside the sleeve

# Required Parts

First make sure you have all the required parts.

PRODUCT NAME	PRODUCT NUMBER	DESCRIPTION	INFORMATION
<b>4. COATING BRUSHES &amp; BRUSH STOPPER</b> 	212000050	For DN32/ 1/4" drain	6mm/ 1/4" shaft
	212000075	For DN50/2" drain	
	212000100	For DN70/3" drain	DN50/2" - DN200/8" fit
	212000125	For DN100/4" drain	8mm/1/8" shaft only
	212000175	For DN150/6" drain	
	212000220	For DN200/8" drain	
	900000338	Brush Stopper	Extra stopper to secure brush
<b>5. PICOTE 100% SOLIDS EPOXY</b> 	2110001001	Picote Dual Color Epoxy Kit, 12lbs 5oz	6 Cartridge Kit (3 White, 3 Dark Grey) with 8 Tips & 3 Nuts.
	2130000002	Nut (pack of 10)	
	2130000001	Tip (pack of 10)	More information on p.36
	2110001003	Special Lubricant designed to reduce friction	1 quart hose lubricant
<b>6. PICOTE SMART MIXER</b> 	2130001001	Picote Smart Mixer	Battery powered cartridge case with spare battery, charger and additional 600ml piston. Please see the Smart Mixer operating manual for more information.
<b>7. DRAIN CAMERA</b>	Use your own mini camera		Mini camera is necessary for the process as a standard cam will weight the rush down too much and create problems with the finished product.
<b>8. OTHER ITEMS</b>	Duct Tape	Scissors	Be sure you have plenty of rags for the clean-up process.
	Resin Cups	7mm Nut Driver for Hose Clamps	
	Acetone, Rags & Bucket	2.5mm Hex Key for Screws	
	Latex/Nitrile Gloves	Spare Hose Clamps	
	Razor Knife		

# PREPARING THE ORIGINAL PIPE FOR CLEANING

Substrate preparation is one of the most crucial steps in the coating process as specialized coating resin is designed to bond to the host pipe. Be sure to remove all scale, grease, dust and any other debris completely from the pipe before coating. If coating plastic pipe be sure to abrade thoroughly with Picote Smart Cutter grinding panels.



**WARNING**

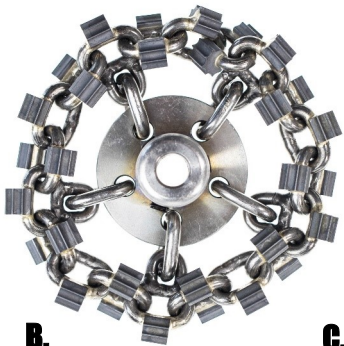
## STEP 1



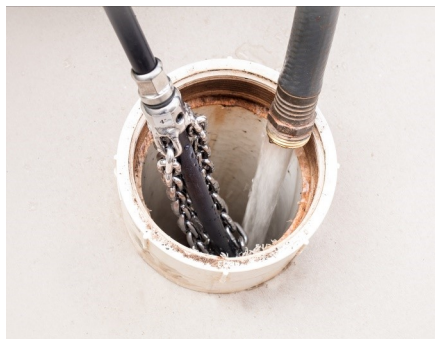
Clean the host pipe very well. Use Original (a) or Cyclone (b) grinding chains with carbides for cast iron pipes and flush with water. For PVC pipes, use the special PVC chains (c). Use a wire brush (d) to remove final dust and other remaining particles.



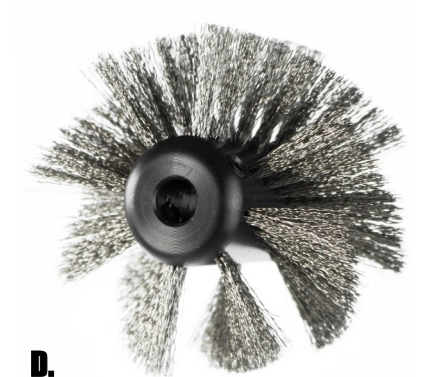
**A.**



**B.**



**C.**



**D.**

**OPTIONAL STEP:** For pipe with excessive build up of fats, oils or grease (FOG) a degreaser may be necessary. This can be pumped into the pipe during cleaning if necessary using the coating pump system and Eco-friendly degreasing agent.



# Preparing The Original Pipe For Coating

## STEP 2



When necessary, run the Smart Cutter with side grinding panels through the pipe to create a rough surface and allow for the resin to have the best possible bond to the pipe wall.



## STEP 3



Let the pipe dry out. To expedite the process, use an air blower or hot air. *(Available soon.)*



**Once the original pipe is clean, move on to the Coating System Pump Assembly**



# COATING SYSTEM ASSEMBLY >THE PUMP

## Required Tools & Parts

SCISSORS

NUT DRIVER 7mm

PICOTE HOSE LUBE

RESIN CUP

RED SUPPLY HOSE

BLACK DELIVERY HOSE

11mm & 13mm HOSE CLAMPS

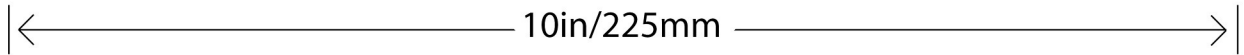


# Coating System Assembly

## >The Pump



**STEP 1** ▶ Cut the Resin Pump Supply Hose to exactly 10 inches or 225mm. Ensure the ends are squared.



**STEP 2** ▶ Prepare the Hose Connectors and Hose Clamps to be inserted into Resin Supply Hose. There are 2 small hose clamps for black hose (10mm) and 2 larger hose clamps for red hose (13mm)



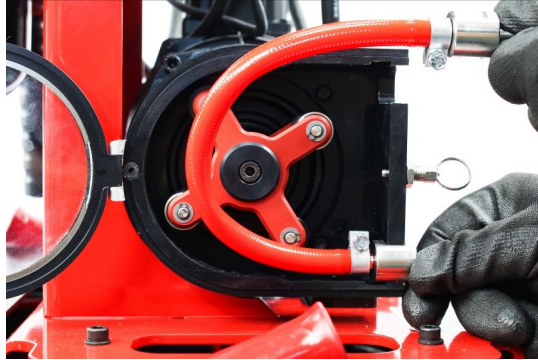
**STEP 3** ▶ Insert hose connectors and rotate notched surface up while following the natural curve of the hose. Ensure hose clamps are facing outward and inward. Once positioned properly tighten the hose clamps. This is important when installing into the pump housing.



# Coating System Assembly

## >The Pump

**STEP 4** ▶ With hose clamps facing outward, insert the connector into bottom of the housing key-way.



**STEP 5** ▶ Push hose into housing and slowly rotate the pump rotor clockwise while feeding the hose into place.



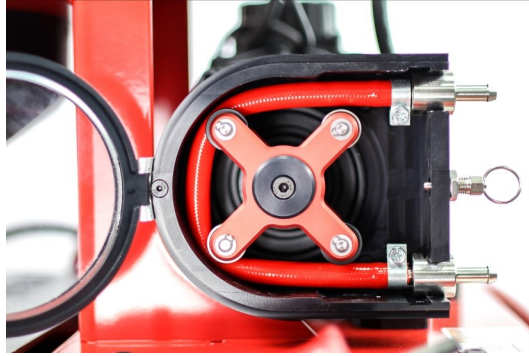
**STEP 6** ▶ Slide second connector into the top key-way.  
Note: light pressure will be needed to pull the top connector into the key-way.



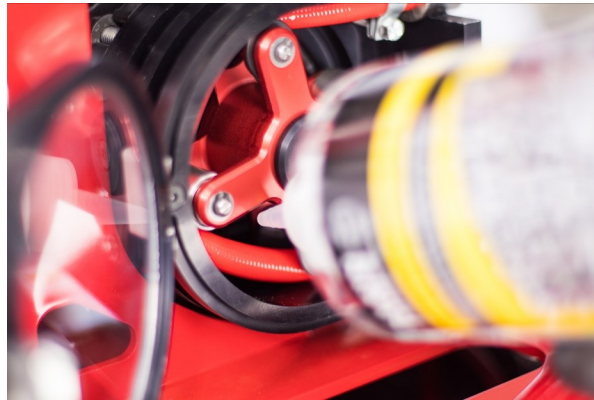
# Coating System Assembly

## >The Pump

**STEP 7** ▶ Ensure hose clamps are facing inward and outward for easy access if required.



**STEP 8** ▶ Apply a small amount of a water based lubricant (wire lube) to the underside of the hose at the bottom of the housing. This allows the hose to always return to the center after the rollers pass over it.



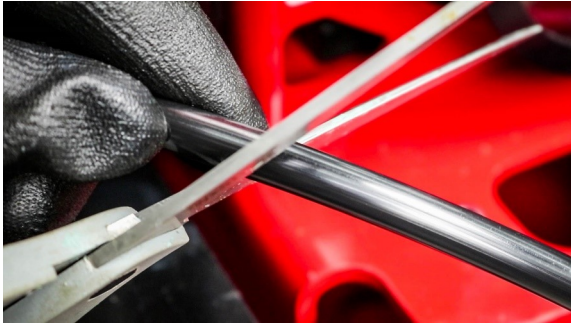
**STEP 9** ▶ Close housing door to secure connectors. Pump door should remain closed at all times during the coating process.



# Coating System Assembly

## >The Pump

**STEP 10** ▶ Cut a 1.2m or 48" piece of the black Delivery Hose to be used as a supply hose extension. One end will require a 45 degree angle and the other should be a square cut.



**STEP 11** ▶ Attach the square end of the hose to the top hose connector on pump using a small hose clamp.



**STEP 12** ▶ Take the 45 degree end and place in the resin cup at the back of the pump. Run the hose through the retaining holes on the back of the pump.



# COATING SYSTEM ASSEMBLY

## >Brushes

### Required Tools & Parts

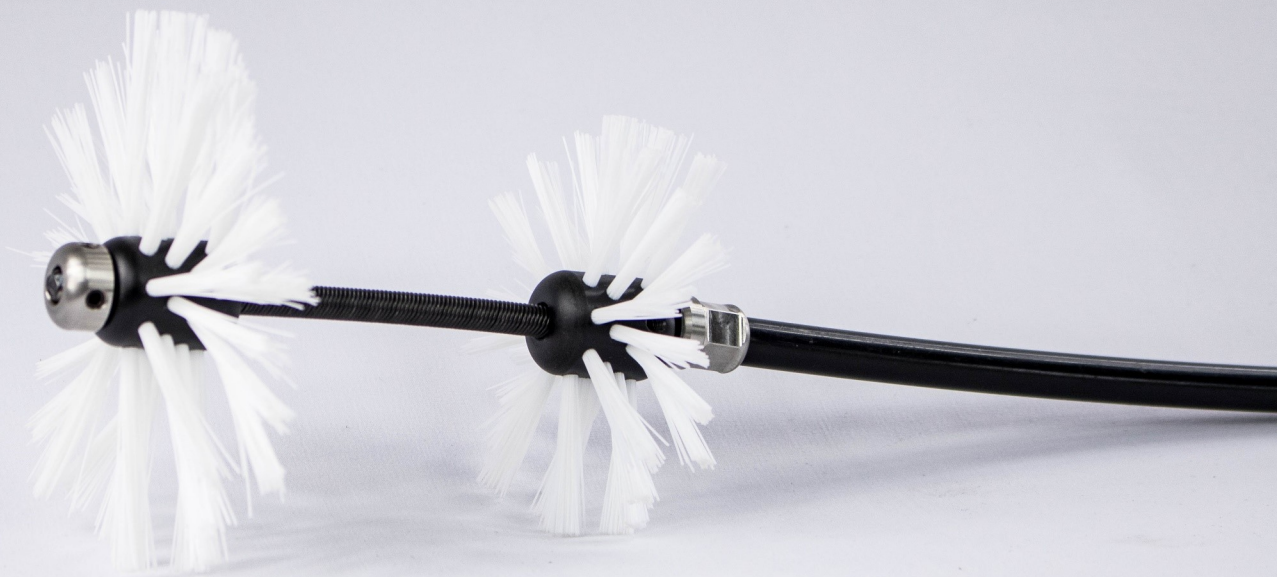
BRUSHES (1 or 2)

BRUSH STOPPER

SLEEVE BEARING

ALLEN KEY (2.5)

ADJUSTABLE WRENCH



# Coating System Assembly

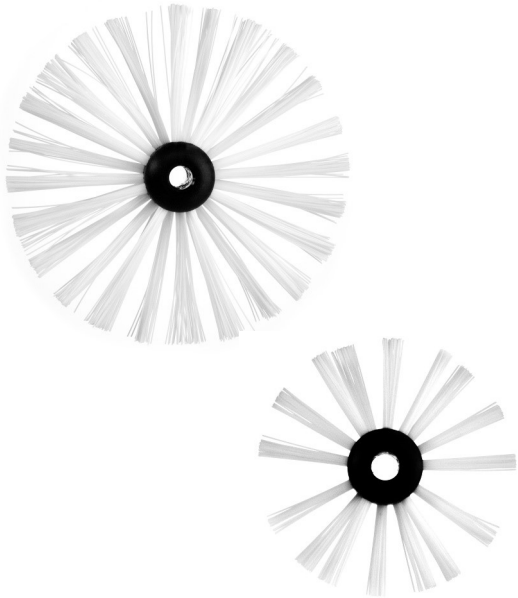
## >Brushes



### STEP 1

Select the appropriate brush size for the pipe. Always use a brush one pipe size larger than the pipe to be coated.

*Note: Although one brush can be used in straight pipe, dual brushes are required for pipes with bends or transitions.*



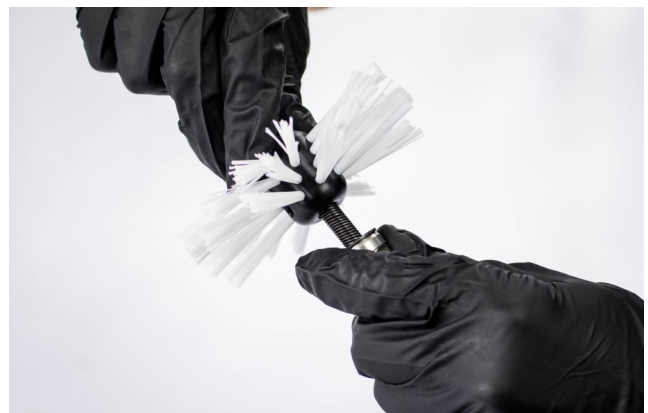
#### FOR 6mm SHAFT ONLY

32mm/1.25" Coating Brush	DN32/1.25" drain
50mm/2" Coating Brush	DN40/1.5" drain
75mm/3" Coating Brush	DN50/2" drain
100mm/4" Coating Brush	DN70/3" drain
125mm/5" Coating Brush	DN100/4" drain
175mm/7" Coating Brush	DN150/6" drain
220mm/9" Coating Brush	DN200/8" drain**

**\*\* The Mini Miller pump can be used in DN200/8" drain if it is 10m/32' or less. If coating 8"+ use the Maxi Miller pump.**

### STEP 2

Always use a sleeve with bearing on the outer casing of the miller shaft. Attach the smaller brush against the sleeve leaving roughly 6mm / 1/4" between the brush hub and sleeve and secure the two 2.5mm set screws. **DO NOT OVER TIGHTEN OR SCREWS MAY STRIP THE NYLON HUB.**



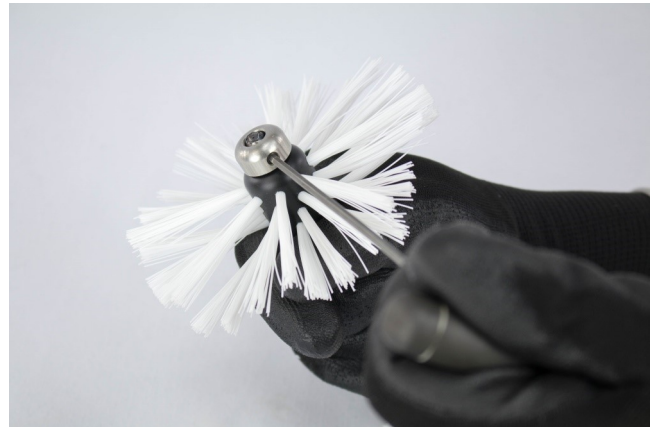


# Coating System Assembly

## >Brushes

*The larger of the two brushes will be the brush at the tip of the shaft and is used for finishing the resin. The closest brush helps to spread the resin and stabilize the brush set during coating.*

**STEP 3** ▶ Slide the larger brush onto the shaft followed by the supplied brush stopper. Bring to the end and tighten both securely



**STEP 4** ▶ Leave 100mm or 4" between the brushes with no need for casing over the shaft. This will allow for flexibility around bends.



**Once the brushes are assembled, move on to the Delivery Hose and Camera set up.**

# COATING SYSTEM ASSEMBLY

## > Delivery Hose & Camera

### Required Tools & Parts

DELIVERY HOSE

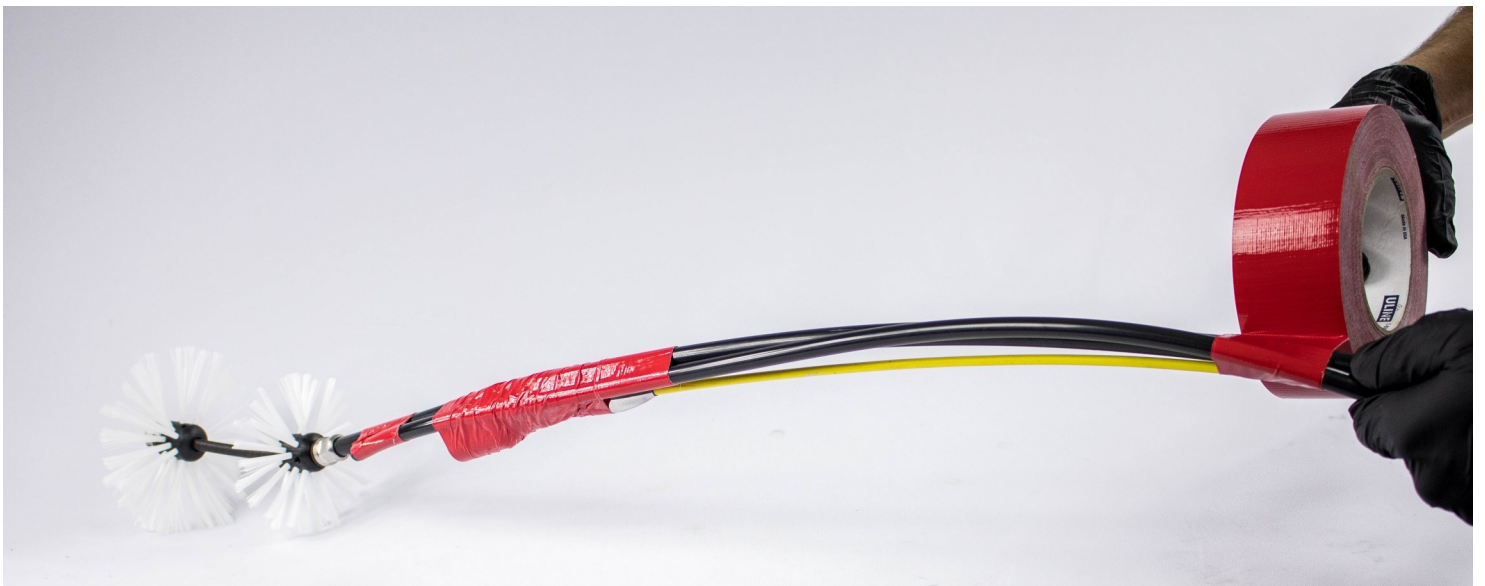
DUCT TAPE

CAMERA

NUT DRIVER

SCISSORS

11mm CLAMP



# Coating System Assembly

## > Delivery Hose & Camera

*When you are pulling the delivery hose from the roll, always pull from the center. This will keep the hose from getting tangled and messy.*



### STEP 1



Pulling from the center of the delivery hose roll, attach the delivery hose 5-7cm / 2-3'' behind the sleeve bearing with duct tape. Exactly 30cm / 1ft away, place a second piece of tape securing the delivery hose to the shaft.



### STEP 2



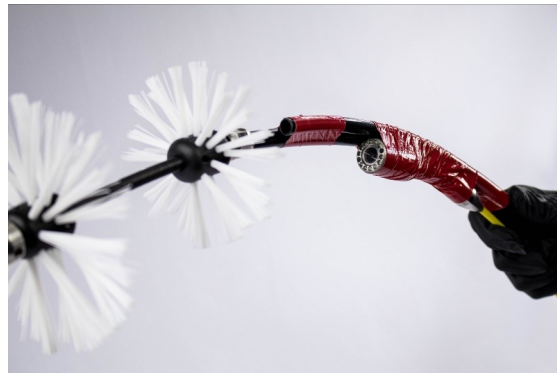
Attach the camera head 10-15cm / 4-6'' behind the sleeve bearing. Watch your camera screen to ensure that you have full view of the brush.



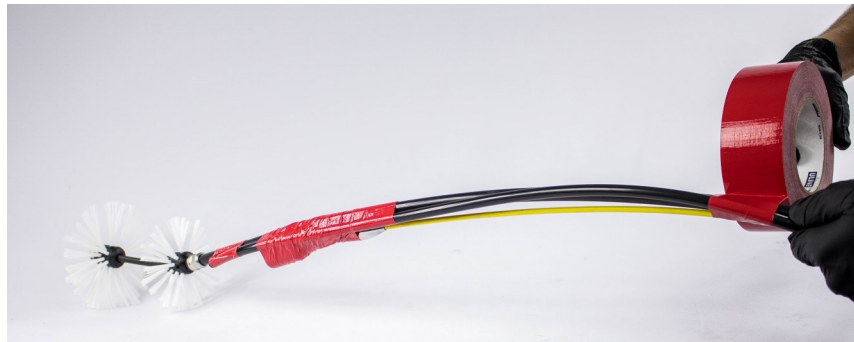
# Coating System Assembly

## > Delivery Hose & Camera

**STEP 3** ▶ Once the brush is in full view on the screen, tape the camera head from the very end all the way to the end of the camera spring. This will ensure the camera spring and connectors inside stay clean during the process.



**STEP 4** ▶ Once the camera is secure, insert the brushes in to the pipe opening. Push in about 1 meter/ 3ft and tape camera, delivery hose and miller cable all together.



**STEP 5** ▶ Continue taping every 1 meter / 3ft and pushing into the pipe until the end of the pipe to be coated has been reached.



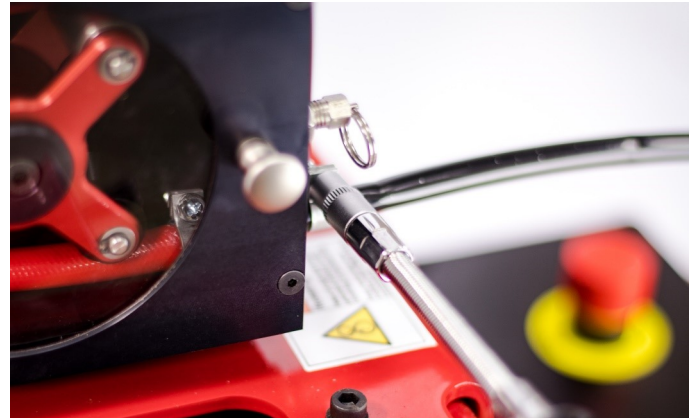
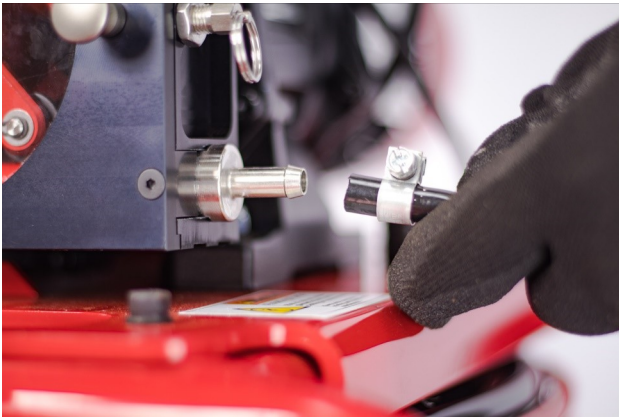
# Coating System Assembly

## > Delivery Hose & Camera

### STEP 6



With the pump and miller positioned as close to the opening as possible, cut off the delivery hose (square cut) and attach to the bottom connector on the pump. Secure with a hose clamp.



**Once the Delivery Hose & Camera are set up, begin preparing the Resin.**

# PREPARING THE RESIN

## Required Tools & Parts

DUAL COLOR 100% SOLIDS EPOXY

STATIC MIXING TIP

SMART MIXER

GLOVES

RESIN CUP & BAG

SCISSORS

PIPE CUTTER

RAGS

ACETONE



*TIP: Resins have limited work time. Higher temperatures will decrease the work time. If epoxy is over 29°C or 85°F upon installation, it is recommended to chill the epoxy slightly. If too cold the resin may become difficult to pump. Room temperature is always recommended*

# Preparing The Resin



## STEP 1

Before you begin preparing the resin for application, verify the following: **(A)** The Mini Miller and Pump are ON. **(B)** The Speed of the Mini Miller and Pump are set correctly. **(C)** The Mini Miller and Pump are set to rotate clockwise.



## STEP 2

To avoid contact with epoxy on skin, wear at least two pairs of safety gloves. The top pair will be removed during the cleanup process, leaving you with a clean pair of gloves on.



## STEP 3

There are 4 stages to setting up the resin cartridge. Always keep the cartridge upright to avoid resin leakage and possible mixing of resin.

- A.** Choose the desired color of resin for the first application. Choose a color that gives the most contrast to the original pipe color. If you are coating a light pipe, use the dark gray first, or in dark pipe use the white resin to start with.
- B.** Remove the nut(1) and cartridge cap(2), and set aside for later.



# Preparing The Resin

- C.** Cut the mixer tip back two notches. This will improve the flow of resin and allow for cleaner operation of the Smart Mixer during operation.



- D.** Attach the static mixing tip and secure with the nut.



## STEP 4

Once the mixing tip and nut are securely fastened, insert the Epoxy Cartridge into the Smart Mixer. Now change the speed dial on the Smart Mixer to the 4th setting.





# Preparing The Resin

## STEP 5

Feather the trigger to allow the pistons to seat properly and evenly on the back of the cartridge. Once resin flows into the tip, slowly dose a small amount of resin (no more than 1 oz) into a cup or cartridge bag and dispose of it. This will ensure the resin is



## OPTIONAL STEP

If using the Smart Mixer with the platform attachment, mount the Smart Mixer to the platform and secure with latch. Some later models can be upgraded with platform attachment. See Smart Mixer installation instructions (ask reseller for upgrade information).



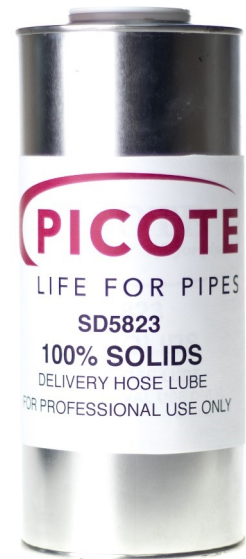
# OPERATING THE COATING SYSTEM

## TIP

If the piping system has several bends that are difficult to navigate or if the line set is difficult to push through the pipe, a special lubricant can be used to reduce friction. The Picote Delivery Hose Lube should be added to a spray bottle to be easily applied to the outside of the line set. Lightly coat the line set as it is being pushed into the pipe.

Please note: The lubricant is highly specialized and designed to be absorbed into the coating resin without causing negative effects. Any other lubricant **WILL** cause negative effects and can prevent the epoxy from bonding or curing properly.

Excessive use is not needed or recommended.



After priming the static mixing tip, allow the resin to begin filling the resin cup to no more than  $\frac{1}{3}$  full. Filling the cup too full will generate heat too quickly and take away from overall working time.



## STEP 1



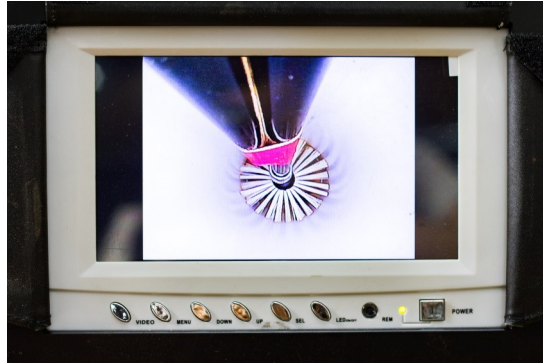
Once the cup is  $\frac{1}{3}$  full, begin priming the delivery hose. Set the variable speed dial on the pump to full speed and engage the pump to begin priming the delivery hose.



# Operating The Coating System

## STEP 2

▶ Watch the CCTV screen for the resin flow. Note: it may be difficult to see the flow of resin if the camera is turned upside-down. Watch closely and move the camera back and forth if necessary to check for resin flow.



## STEP 3

▶ Once resin can be seen flowing stop the pump and turn the variable speed dial down to the appropriate speed for the pipe diameter. (Pump speed is at the operator's discretion).



## STEP 4

▶ Start the coating from the far end. Pump out resin and brush it on. Pay close attention to the flow of resin and lay a consistent bead into the pipe. Also watch the bead of the resin around the edge of the brush. Pull slowly and evenly for 1m / 3ft.



# Operating The Coating System

**STEP 5** ▶ Stop the pump and brushes and push back into the pipe to visually verify the coating has covered all required areas evenly. Repeat this process in 1m / 3 ft sections until the pipe is fully coated.



**STEP 6** ▶ Average coat thickness is 1mm. Carefully inspect that the resin covers the pipe everywhere. Be especially careful around bends.



**STEP 7** ▶ Once first coat is complete, apply heat to the pipe before starting the next coat to speed up dry time. Wait 2.5 hours or until dry to touch before applying the next coat (can be earlier if you apply heat).



## RECOMMENDED NUMBER OF COATS

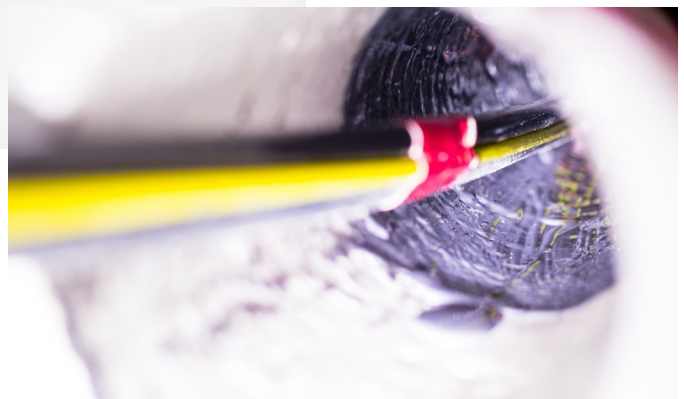
DN32/1 ¼"	2 coats
DN50/2"	2-3 coats
DN70"	3-4 coats
DN100/4"	3-4 coats
DN150/6"	4-5 coats
DN200/8"	4-5 coats

# Operating The Coating System

**STEP 8** ▶ If the next coat is applied after 24 hours, the original coat will need to be abraded with a Smart Cutter first to make sure that the layers bond well.



**STEP 9** ▶ Dual Color Method. Apply over existing color with new color. Verify that resin has been applied everywhere. The Dual Color Method allows for clear visual verification during application that resin has been evenly distributed everywhere.



# CLEANING UP THE COATING SYSTEM

## Required Tools & Parts

**SCISSORS**

**ACETONE**

**RAGS**

**5mm DRILL BIT**

**NUT DRIVER**

# Cleaning Up The Coating System



## STEP 1



When you have finished coating, turn the pump rotation to reverse. This will pull the resin back to the cup and reduce dripping resin during the cleaning process. When the resin stops dripping, put the brushes in a bucket of Acetone. Cover the opening and run brushes for a short time to rinse off resin. Brushes and cable should now be clean enough for reuse later.



## STEP 2



Wipe the camera head and the Mini Miller shaft clean with an acetone soaked rag.



## STEP 3



Cut away tape and recoil the cleaned camera and miller cables into their holders.



# Cleaning Up The Coating System

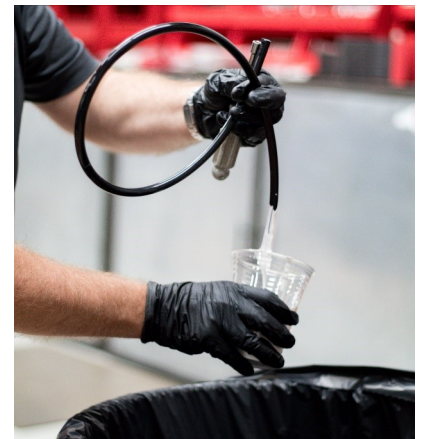
**STEP 4** ▶ Stop the pump from spinning in reverse and shut the system down completely. Isolate the power supply. Remove cartridge from the Smart Mixer. Recap for later if there is unused material in the cartridge



**STEP 5** ▶ Wipe down the delivery hose so as not to make a mess and remove the pump hose from the housing.



**STEP 6** ▶ Carefully remove the suction hose from the cup and wipe down the end. Watch for drips and tape the end closed if necessary.





# Cleaning Up The Coating System

**STEP 7** ▶ With the entire hose set removed from the pump, cut away the hose connectors and clamps for reuse



**STEP 8** ▶ Remove hose clamps and carefully cut away hoses and dispose of them.



**STEP 9** ▶ Hose connectors can be cleaned with acetone and a small wire brush or cotton swab, or they can be allowed to cure and drilled out later.



# Cleaning Up The Coating System

**STEP 10** ▶ Empty any remaining Epoxy in the resin cup into the trash can. Then wipe the container clean with acetone so that it can be used again later.



**STEP 11** ▶ If drilling, clamp the connector in a vise or hold tightly with locking pliers. Carefully drill the hardened resin out of the center entirely. Save clamps and connectors for reuse later.



# PICOTE DUAL COLOR EPOXY RESIN INFORMATION

## PICOTE 100% SOLIDS EPOXY

Mixing ratio 2:1 / Pot life about 25 min

### Package Sizes:

Cases contain 3 white and 3 dark gray cartridges each with 900ml of epoxy inside.



**Re-coat** - 2.5hrs @ 70F/21°C / **Restore flow** - 4hrs. / Final Cure - 24hrs.

Can be re-coated within 24hrs with no prep, sanding panels must be used after 24hrs.

**Installation:** 50F/10°C - 140F/60°C / **Storage:** Room Temp 60F/15.5°C - 85F/29°C

**Finished product:** up to 250F/121°C constant



DC1000E



Meets the Requirements of NSF/ANSI 61-5

**100% SOLIDS EPOXY**

WHITE

FOR PROFESSIONAL USE ONLY

NET CONTENTS: 900 ml.

**WARNING!** MAY CAUSE ALLERGIC SKIN OR RESPIRATORY REACTION. HARMFUL IF INHALED. MAY CAUSE EYE, SKIN RESPIRATORY TRACT IRRITATION. MAY BE HARMFUL IF SWALLOWED.

**FIRST AID:** IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN IF IRRITATION DEVELOPS AND PERSISTS. WASH CLOTHING BEFORE REUSE. IF INHALED: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. IF SWALLOWED: DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY A MEDICAL PHYSICIAN.

**FOR PROFESSIONAL USE ONLY:** USE THE NECESSARY SAFETY EQUIPMENT (NITRILE OR LATEX GLOVES, EYE PROTECTION) REVIEW SAFETY DATA SHEET (SDS) FOR FURTHER INFORMATION.



UN 2735, Amines, liquid, corrosive, n.o.s., (Tallow Amine), 8, PGIII

### Minimum Storage Temperature:

Room Temp 60F/15.5°C - 85F/29°C

**Shelf life:** 2 years from packaging when kept in accordance with storage instructions included in MSDS and Technical Data Sheet

**Industrial safety:** Ready-measured product must not be in contact with skin (it adheres)

**Gas emissions:** No harmful VOCs released during mixing or after hardening.

**Safety data sheet:** Delivered with first order.

# MACHINE MAINTENANCE

## CARING FOR THE FLEXIBLE SHAFT (Mini Miller)

The flexible shaft is pre-treated with **paraffin oil** and the casing replaced prior to shipping. Always inspect the condition and apply oil between the flexible shaft and its outer casing when required. If necessary remove the shaft from its casing to treat. When the casing has been replaced, rotate manually for even coverage.

**TIP:** Picote Oil is now available for purchase. If Picote Oil or paraffin oil is unavailable, air compressor lubricating oil may be used as an alternative.

## FASTENER SCREWS FOR THE SMART CUTTER HUB

If you are unable to tighten the fastener screws properly, due to worn out hex socket heads, replace the fastener screws immediately. Otherwise, a brush or other tool can detach from the shaft during use, and fall into the pipe.

## PUMP & MILLER PARTS

Keep parts clean. Where possible, remove resin from the Coating Pump, brushes, Miller and other parts carefully with acetone. See pages 31-34 for more information.

**PLEASE READ YOUR **MINI MILLER** USER MANUAL FOR MORE DETAILED INSTRUCTIONS ON HOW TO PROPERLY MAINTAIN THE MACHINE**



**Please Contact:**  
Your Reseller / Salesperson or Picote  

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[www.picotebrushcoating.com](http://www.picotebrushcoating.com)



**Training on the Picote Brush Coating™ System is available at our training centers in the USA and Finland**

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